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December 4, 2009



881006

Via Certified Mail

Barbara A. Nann
Assistant Regional Counsel
United States Environmental Protection Agency
Region 6 Superfund Division (6RC-S)
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202-2733

✓ Barbara Aldridge
United States Environmental Protection Agency
Region 6, Mail Code (6SF-TE)
1445 Ross Avenue, Suite 1200
Dallas, Texas 75202-2733

Re: Gulfco Marine Maintenance Superfund Site, Freeport, Texas; Amended Unilateral
Administrative Order, CERCLA Docket No. 06-05-05

Dear Ms. Nann and Ms. Aldridge:

As you know, during the course of the work under the above-referenced Order, members of the Gulfco Restoration Group have been investigating the involvement of other potentially responsible parties ("PRPs") at the Gulfco Marine Maintenance Superfund Site (the "Site"). As part of this investigation, the parties retained CR Consulting, Inc. ("CR Consulting") to review the Site documents, including copies of the documents that EPA obtained from Bobby Casale. Based on its extensive review, CR Consulting compiled the enclosed "PRP Site Nexus Reports" identifying twenty additional PRPs.

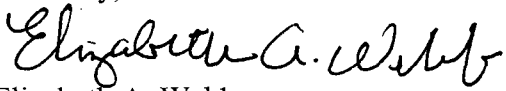
The information in the reports documents the involvement of other parties and their use of the Site. The Gulfco Restoration Group urges EPA to review this information and name additional PRPs and, in appropriate cases, send the identified party an information request to further investigate its involvement at the Site. As pointed out in the "Overview" to the enclosed nexus reports, the Site information available for review is limited in both time frame and scope. Therefore, it is likely that an identified PRP's involvement at the Site is more extensive than demonstrated in the limited available documents. The reports make clear one undisputable fact: many other parties used the services of the Site and are therefore liable for the Site investigation costs and any necessary future remedial costs. Now is the time for EPA to seek the participation of these parties in the payment of costs and future activities at the Site. We trust that EPA will

December 4, 2009

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dutifully investigate the identified PRPs to the full extent, and name additional PRPs for the Site as appropriate.

Sincerely,



Elizabeth A. Webb

Enclosure

Gulfc0 Marine Maintenance
Superfund Site
Freeport, Brazoria County, Texas

PRP Site Nexus Reports

November 5, 2009

Prepared by CR Consulting, Inc.

Gulfco Marine Maintenance Superfund Site
PRP Site Nexus Reports

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Gulfco Marine Maintenance Superfund Site PRP Site Nexus Reports

OVERVIEW OF PRP SITE NEXUS REPORT PREPARATION

The following is a summary of the process, information reviewed and findings of a Potentially Responsible Party ("PRP") investigation undertaken by CR Consulting, Inc. for the Gulfco Marine Maintenance Superfund Site (the "Site") near Freeport, Texas.

CR Consulting, Inc. was retained by members of the Gulfco Restoration Group to identify additional PRPs at the Site. The PRP search was based on a review of available documents produced by the Environmental Protection Agency ("EPA"), Region 6 office in response to Freedom of Information Act ("FOIA") requests and other relevant Site documents. In response to the FOIA requests, EPA provided certain documents in its possession related to the Site.

The documents produced include information prepared by one of the Site owners/operators, Hercules Marine Services Corporation ("HMSC"), during the course of its normal operations. The HMSC documents included job files which contain documentation of HMSC's services performed for its customers during the 1990's. In addition to the job files, other records were reviewed including miscellaneous HMSC business records¹, deposition testimony and other documents produced in a litigation matter of HMSC v. Bob Casale, and other government agency records.

CR Consulting, Inc. also relied upon the United States Coast Guard's ("USCG") Vessel search web site at <http://www.st.nmfs.noaa.gov/st1/CoastGuard/VesselByName.html>. The USCG on-line database provided ownership information for vessels, including barges, which were identified in other Site-records as being serviced at the Site.

Based on this review, the Site Nexus Reports were developed identifying twenty (20) additional PRP's at the Site. The reports provide site nexus information for HMSC customers and are structured in the following manner. The PRP name is provided as well as contact information including street and mailing addresses, telephone numbers, and web addresses where available. The type of business the PRP engages in as it relates to the Site is also provided. The known period of involvement with the Site based on the available documentation is noted, including a summary of each known transaction or event where the PRP was involved at the Site. This involvement typically notes a job for which HMSC provided service to a PRP-owned and/or operated vessel, including barges. Where available, the PRP Nexus Reports identify whether CERCLA hazardous substances were either disposed or generated as a result of any given action at the Site.

The information provided herein with the PRP Site Nexus Reports demonstrates involvement of the noted PRPs at the Site. However, the full extent of each PRP's involvement requires additional investigation by EPA, as the documents made available

¹ HMSC business planning records identify numerous PRPs and their potential nexus at the Site. These business planning documents are included with the Site Nexus Report binder as an attachment. The documents were extracted from a larger electronic document file produced by EPA with the document number 8000622.pdf.

Guloco Marine Maintenance Superfund Site
PRP Site Nexus Reports

to us were limited in both time frame and scope. Clearly, additional PRP's are liable at this Site. This information compels EPA to dutifully investigate the identified PRP's to the fullest extent, and accordingly name additional PRPs for the Site.

1

PRP Name(s): American Commercial Barge Line ("ACBL")
American Commercial Lines Inc. ("ACL")
National Marine Service

American Commercial Lines Inc.
1701 East Market Street
P.O. Box 610
Jeffersonville, Indiana 47131-0610
www.aclines.com

TYPE OF BUSINESS: Marine Transportation

KNOWN PERIOD OF SITE NEXUS: May 1992 - 1998

May 13, 1992

Description: Barge Services – Texas Environmental Quality Specialist Inspection Report. During Inspection of Hercules facility the following was noted:

"Company records indicated that on that date [May 13, 1992], three barges from National Marine Service containing M.T.B.E. were in for service. The barges were not opened. Instead, they were at the facility for cleaning of the containment pans around the engine and headers." p. 3-4.

Barge services were provided to National Marine Services Corp. which was acquired by ACBL in 1998.

EPA Doc No. 8000819.pdf.

June 23, 1994

Description: Barge Services – Marine Chemist Invoice to Hercules for services provided on Chemist Certificate on Tank Barge CHEM 125.

U.S. Coast Guard Vessel Documentation shows American Commercial Lines as the owner of Vessel CHEM 125 (See Attached printout from United States Coast Guard Documentation Database found at:
<http://www.st.nmfs.noaa.gov/st1/CoastGuard/VesselByName.html>)

Hercules Job ID: Unknown

Cargo/Material: Caustic

Hazardous Substance: Indeterminate

EPA Document No. R6JZ010001000153; 8000253.pdf;
[Bates No. HER 03067]

July 15, 1994

Description: Barge Services – Marine Chemist Invoice to Hercules for services provided for certification on tank barge DM 943. [8000253.pdf]

Barge Cleaning Services to DM 943. “Strip all free product; blow cargo pipeline; vacuum and blow dry cargo tank and gas free; remove styrene polymer from cargo tank hatches.”

Barge services provided to National Marine Services Corp. which was acquired by ACBL in 1998.

Hercules Job ID: 4321

Cargo/Material: DAC Oil (Debutanized Aromatic Concentrate

Hazardous Substance: Yes -- contains benzene, cyclohexane, toluene.

EPA Doc No. 8000728.pdf

June 27, 1994

Description: Barge Cleaning Services to tank barge DM 972 – “strip out all free product; blow cargo line; vacuum and blow dry cargo tanks.”

Services provided to National Marine Services Corp. which was acquired by ACBL in 1998.

Hercules Job ID: 4310

Cargo/Material: Acetone

Hazardous Substance: Yes

EPA Doc No. 8000727.pdf

May 26, 1994

Description: Barge Cleaning Services to tank barge DM 966 – “Strip and blow dry cargo tanks and pipeline.”

Services provided to National Marine Services Corp. which was acquired by ACBL in 1998.

Hercules Job ID: 4289

Cargo/Material: Acetone

Hazardous Substance: Yes

EPA Doc No. 8000726.pdf

1996

Description: Barge Services – ACBL identified as a customer of Hercules Marine in budget document prepared by Hercules. Document projects four barges to be serviced.

Hercules Job ID: Unknown

Cargo/Material: Unknown

Hazardous Substance: Indeterminate

EPA Document No. 8000622.pdf

1996

Description: Barge Services – National Marine identified as a customer of Hercules Marine in budget document prepared by Hercules. Document estimates revenues from National Marine of \$6,000 in September 1996. Also projects ten barges to be serviced.

Cargo/Material: Unknown

Hazardous Substance: Indeterminate

EPA Doc No. 8000622.pdf

1995 – 1998

Description: Barge Cleaning – Exhibit C to Hercules Marine Service Corporation (“HMSC”) Business Plan for 1994-1995 shows estimated revenue from HMSC customers. Estimated annual revenue from National Marine is \$78,800.

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Exhibit D to the plan projects ~~four~~ barges per week
expected from National Marine through 1998.

EPA Doc No. 8000622.pdf (1995 Business Plan)

Coast Guard Vessel Documentation

Data found in current database.

Vessel Name:	CHEM 125	USCG Doc. No.:	593019
Vessel Service:	TANK BARGE	IMO Number:	*
Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
Hull Material:	STEEL	Hull Number:	*
Ship Builder:	*	Year Built:	1978
		Length (ft.):	195
Hailing Port:	PHILADELPHIA PA	Hull Depth (ft.):	10.5
Owner:	AMERICAN COMMERCIAL LINES LLC 1701 EAST MARKET STREET PO BOX 610 JEFFERSONVILLE, IN 47131-0610	Hull Breadth (ft.):	35.1
		Gross Tonnage:	835
		Net Tonnage:	835
Documentation Issuance Date:	June 30, 2008	Documentation Expiration Date:	July 31, 2009
Previous Vessel Names:	No Vessel Name Changes	Previous Vessel Owners:	No Vessel Owner Changes

2

PRP Name: Allied Towing
Allied Marine Services, Inc.

Allied Towing
c/o Kirk J. Woodruff, President
Allied Marine Services, Inc.
P.O. Box 717
Norfolk, VA 23501
(804) 475-7877
(757) 545-7301
www.shipequip.com/

TYPE OF BUSINESS: Marine Hauling Services

KNOWN PERIOD OF SITE NEXUS: June 6, 1994 – July 27, 1994.

June 6-7, 1994

Barge Services to barge Hugh to include: Drain cargo pipeline... wash and strip... cargo tanks... wash and strip dip pans". [Bates No. HER 03600]

Hercules Job ID: 4294

Cargo/Material: Caustic

Hazardous Substance: Yes

EPA Document No. 8000673.pdf

July 27, 1994

Barge Services to barge Hugh to include: "Wash and strip cargo tanks." [Bates No. HER 03617] See also invoice from Marine Chemist Eric Moore, Chemist Certificate on the vessel Hugh at Hercules in Freeport, Texas on 27 July 1994.

Hercules Job ID: 4323

Cargo/Material: Caustic

Hazardous Substance: Yes

EPA Document No. 8000674.pdf;
R6JZ010001000153 (Invoice from
Eric Moore, Chemist)

3

PRP Name: Ashland Oil

Ashland Oil c/o
Ashland Inc.
Corporate Headquarters
50 E. River Center Blvd.
P.O. Box 391
Covington, Kentucky 41012-0391
(859) 815-3333
www.ashland.com

TYPE OF BUSINESS: Diversified Chemical Company

KNOWN PERIOD OF SITE NEXUS: July 1994

July 13, 1994

Description: Marine Chemist Certificate indicates barge No. TPT 372, owned by Ashland Oil, is cleared for workers and hot work.

Hercules Job ID: Unknown

Cargo/Material: Styrene

Hazardous Substance: Yes

EPA Document No. R6JZ010001000152; [HER 03034];
8000252.pdf

Comment: "TPT, Division of Ashland Oil Company"
barges were acquired by Kirby Corporation
from Ashland in 1993. See Kirby Corporation
Nexus Report for more information.

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PRP Name: BASF Corporation

BASF Corporation
602 Copper Rd.
Freeport, Texas 77541-3038
www.basf.com

TYPE OF BUSINESS: Chemical Manufacturer

KNOWN PERIOD OF SITE NEXUS: 1989 – 1997/1998

INTRODUCTION

The Gulfco Marine Maintenance Superfund Site (“Site”) was placed on the National Priorities List in May 2003. Following the final listing, the Environmental Protection Agency (“EPA”), Region 6, (“EPA”) issued Information Requests under U.S.C. § 9604(e)(2) to various entities. The following Nexus Report summarizes the information of BASF’s known involvement at the Site based on documents reviewed. This summary indicates BASF was a major customer of the Site and may have contributed to Site contamination.

Specifically, the Site Nexus Report summarizes information based on documents reviewed showing the arrangement of disposal of waste, including hazardous substances, by BASF.

OVERVIEW OF BASF SITE ACTIVITIES

BASF’s chemical materials were transported via barge. Some of these barges were serviced at the Site where materials were removed from those barges during maintenance and cleaning operations. The predominant BASF material transported via barge to the Site was cyclohexane. The role of cyclohexane in Site regulatory enforcement by the State of Texas is well documented and not repeated herein. However, Site remedial investigations have shown cyclohexane and the related compound benzene are identified contaminants at the Site. (*See, e.g.,* Appendix A of the Draft Nature and Extent Data Report dated March 2, 2009.)

Attachment 1 provides a cyclohexane warning sheet included with many of BASF’s barge cleaning jobs. The warning sheet indicates benzene, a documented Site contaminant, is a constituent of cyclohexane. Further, cyclohexane can be formulated using benzene as stock materials. Attachment 2 provides copies of recent patent applications for the manufacture of cyclohexane utilizing benzene.

SUMMARY OF BASF JOBS SERVICED AT GULFCO

A summary of the services performed on BASF barges based on documents reviewed has been prepared. This summary is found as Attachment 3. The report reflects data obtained from documents related to each job. A job reflects a single visit to the Site by the barge for cleaning and or maintenance.

CONCLUSION

As demonstrated by records summarized in this Site Nexus Report, BASF was one of the largest documented customers of the Gulfco Marine Site whose materials contained hazardous substances identified during Site cleanup investigations. EPA must require further information from BASF regarding its involvement both prior to and after the documented period to more accurately characterize its significant role at the Site.

Attachment 1

Cyclohexane Warning Sheet

CYCLOHEXANE, 98%

DANGER!

**EXTREMELY FLAMMABLE - VAPORS MAY IGNITE
EXPLOSIVELY. POSSIBLE ASPIRATION HAZARD.**

DANGER: CONTAINS BENZENE - CANCER HAZARD.

**Benzene is a known human carcinogen - overex-
posure may create cancer risk, blood changes or
chromosome changes. Benzene has caused fetal
death in animals.**

PRECAUTIONS:

Keep away from heat, sparks and flame. Keep container closed. Use with adequate ventilation. Avoid contact with eyes, skin or clothing. Wash thoroughly after handling. Launder contaminated clothing before reuse. Do not swallow. May be aspirated into the lungs.

FIRST AID

In case of contact, flush eyes with water. Flush skin with water for 15 minutes. If inhaled, remove from exposure. If breathing is difficult, give oxygen, seek medical attention. If swallowed, do not induce vomiting. Seek immediate medical assistance. **NOTE TO PHYSICIAN:** Gastric lavage using a cuffed endotracheal tube may be performed at your discretion.

FOR ADDITIONAL INFORMATION, SEE MATERIAL SAFETY DATA SHEET.

**MANUFACTURED BY
PHILLIPS 66 COMPANY
A SUBSIDIARY OF PHILLIPS PETROLEUM COMPANY
BARTLESVILLE, OK 74004
UNITED STATES OF AMERICA**

FORM 12505-S 12-89

HER 00353

Attachment 2

Representative Patent Applications
Showing Manufacture of Cyclohexane

United States Patent [19]

Hu et al.

[11] Patent Number: 4,731,496

[45] Date of Patent: Mar. 15, 1988

[54] PROCESS FOR THE HYDROGENATION OF BENZENE TO CYCLOHEXANE

[75] Inventors: Shao-Chueh Hu; I-Kai Wang;
Jung-Chung Wu, all of Chia-Yi,
Taiwan

[73] Assignee: Chinese Petroleum Corporation,
Taipei, Taiwan

[21] Appl. No.: 889,280

[22] Filed: Jul. 25, 1986

[51] Int. Cl.⁴ C07C 5/10

[52] U.S. Cl. 585/270

[58] Field of Search 585/270

[56] References Cited

U.S. PATENT DOCUMENTS

4,160,745 7/1979 Murrell et al. 585/270

Primary Examiner—Curtis R. Davis

Attorney, Agent, or Firm—Fleit, Jacobson, Cohn & Price

[57] ABSTRACT

The present invention relates to an improvement in a process for the conversion of benzene in gas-phase to cyclohexane under a suitable operation conditions by hydrogenation over a specific supported nickel catalyst located on a fixed bed reactor, the improvement comprising that the specific supported nickel catalyst is a nickel catalyst supported by a mixture of titanium dioxide and zirconium dioxide. The present invention also relates to the operation condition for the hydrogenation of benzene, the optimal components of the catalyst used, process for the preparation of said specific supported catalysts and the conditions for pretreatment.

6 Claims, No Drawings

PROCESS FOR THE HYDROGENATION OF BENZENE TO CYCLOHEXANE

DETAILED DESCRIPTION OF THE INVENTION

Cyclohexane was first obtained directly by fractional distillation of suitable crude gasoline cuts, with the purity being however only 85%. With further purification the product quality was improved to almost 98% as a result of the simultaneous isomerization of methylcyclopentane to cyclohexane as operated by Humble Oil, Shell, and Atlantic Richfield in USA. Because of the markedly increasing demand for cyclohexane as precursor in manufacture of nylon 6 and nylon 6.6, this amount covers only a minor part of the cyclohexane requirement. The main quantity (approx. 80-85%) is obtained from the hydrogenation of benzene.

Of the numerous variants for the hydrogenation of benzene, the older high pressure processes—employing sulfur resistant catalysts with the benzene feedstock (which generally contained sulfur)—are insignificant today. Newer processes with nickel or platinum metal catalysts require extremely pure benzene with less than 1 ppm sulfur in order that the catalysts are effective in the liquid phase under mild conditions (20-40 bar, 170°-230° C.). In the exothermic hydrogenation, meticulous heat removal and observation of an upper temperature limit of approx. 230° C. with exact residence times are imperative to prevent equilibration between cyclohexane and methylcyclopentane. In several processes, there is only 95% conversion in the first stage, complete hydrogenation occurring in the finishing reactor. By this means, residual amounts of benzene and methylcyclopentane can be reduced to less than 100 ppm.

Liquid-phase hydrogenation are operated in several commercial plants for example by Mitsubishi Chemical, Hydrocarbon-Sinclair, and IFP. In the IFP process, a Raney nickel catalyst is employed in a bubble column reactor at 200°-225° C. and 50 bar. The nickel suspension is circulated to improve heat removal, the benzene being completely hydrogenated in a coupled fixed-bed reactor. Recently, numerous gas-phase hydrogenations have been developed e.g. by Arco, DSM, Toray, Houdry, and UOP. The Hydrar-process (UOP) uses a series of three reactors with a Ni/support and a stepwise increasing temperature (400°-600° C.) at 30 bar. Despite higher reaction temperatures, the isomerization between cyclohexane and methylcyclopentane does not equilibrate due to the short residence times. In the Arco process a noble metal catalyst is used by which conversion of benzene is achieved.

Kinetic studies of gas-phase benzene hydrogenation over supported nickel, palladium or platinum catalysts have been reported by Meerten, Coenen, Nakano, Basset, Franco, Phillips and many other workers. However, there is no report on benzene hydrogenation over supported nickel catalysts where Ti-Zr mixed metal oxides are used as the supports.

The present invention relates to an improvement in the process for the conversion of benzene into cyclohexane by gas-phase hydrogenation over supported nickel catalyst, the improvement comprising that the mixed Ti-Zr metal oxides in place of conventional alumina or diatomaceous earth are used as the supports.

The process for the preparation of the supported catalyst of this application comprises the sequential steps of preparing respectively the solutions of titanium

compound and of zirconium compound in the anhydrous ethanol solution wherein titanium compound and zirconium compound may be the corresponding chloride or organic compounds;

mixing said two solutions of metal compounds in anhydrous ethanol in an appropriate ratio and adding dropwise the resultant mixture to excess ammonia aqueous solution with rapid stirring thereby obtaining a white co-precipitate; washing said co-precipitate which has been collected by filtration, with deionized water; drying the washed co-precipitate at 100° C.;

calcining the dried product at a temperature above 450° C. for more than 2 hours whereby a product that is the support for the catalyst is obtained;

impregnating the surface of said support with an appropriate amount of a aqueous solution of nickel compound and drying at 100° C. wherein said nickel compound may be selected from nickel nitrate, nickel chloride or any nickel salts of organic acids;

reducing the resultant product with hydrogen at a temperature of more than 250° C. after being calcined at a temperature of 90° to 500° C. whereby a catalyst of the present invention used for the hydrogenation of benzene is obtained.

The invention will now be illustrated with reference to the following examples.

EXAMPLE 1

The effect of the temperature at which the supported catalyst is calcined on the activity of the supported catalyst

An equimolar quantity of titanium n-butoxide [Ti(OC₄H₉)₄] and zirconium chloride (ZnCl₄) is dissolved respectively in an appropriate amount of anhydrous ethyl alcohol. After two ethyl alcohol solutions are mixed, the mixture is added dropwise to an excess of aqueous ammonia solution to obtain a white co-precipitate of titanium hydroxide with zirconium hydroxide. The co-precipitate is collected by filtration and then washed with de-ionized water until the solution is free of chloride ion. After being dried at 100° C. the co-precipitate is calcined in air at 500° C. for 2 hours to obtain the support of this example. 3.4 ml of 1.0M nickel nitrate solution is mixed well with the above support, the mixture is then dried at 90° C. whereby a supported catalyst which contains as 2wt% of nickel is obtained.

The above supported catalyst is crushed to form granules of 20-30 mesh in size. The granules thus obtained are divided into three equal portions which after being calcined respectively at 90° C., 300° C. and 500° C. for 2 hours, are respectively placed in a continuous fixed bed reactor and tested for their activities under the same conditions as follows:

reduction temperature	400° C.
reduction time	2 hours
reaction temperature	120° C.
reaction pressure	8 atm
liquid hourly space velocity	4 v/v/hr
C ₆ H ₆ /H ₂ mole ratio	1/6

The result of the test is summarized in table I which shows that in the pre-treatment the lower is the calcination temperature the better is the activity.

TABLE 1

The effect of the temperature at which the supported catalyst is calcined on the activity of 2% Ni/TiO ₂ -ZrO ₂ (1/1, 500° C.) catalyst	
calcination temperature, °C.	conversion, %
500	13
300	19
90	35

EXAMPLE 2

Effect of reduction temperature on the catalytic activity

An equimolar solutions of titanium chloride (TiCl₄) and zirconium chloride (ZrCl₄) in anhydrous ethanol are mixed and treated with excess aqueous ammonia solution to obtain a co-precipitate of titanium hydroxide and zirconium hydroxide. After working up said co-precipitate in a manner similar in example 1 it is calcined at 500° C. to obtain a support which is then impregnated with an appropriate amount of aqueous nickel oxalate solution and dried at 90° C. so as to obtain a supported catalyst which contains 2% by weight of nickel catalyst. The supported catalyst is then divided into four equal portions which are all reduced in reactors with hydrogen at respectively 250° C., 300° C., 400° C. and 500° C. The supported catalysts thus reduced are then tested for their activity in the conversion of benzene under the following conditions:

operation conditions:	
reaction temperature	120° C.
reaction pressure	8 atm
liquid hourly space velocity	4 v/v/hr
C ₆ H ₆ /H ₂ mole ratio	1/6 mole/mole

The result of the test is summarized in table 2 which shows that the best activity is obtained when the supported catalyst was reduced at about 300° C.

TABLE 2

The effect of the temperature at which the support catalyst is reduced on the activity of 2% Ni/TiO ₂ -ZrO ₂ (1/1, 500° C.) catalyst	
reduction temperature, °C.	conversion, %
250	50
300	67
400	35
500	5

EXAMPLE 3

The effect of the composition of the support on the activity of the supported catalyst

Starting with solutions of titanium chloride (TiCl₄) and of zirconium chloride (ZrCl₄) in anhydrous ethanol, co-precipitate the hydroxides of Ti/Zr in a mole ratio of respectively 100/0, 99/10, 75/25, 50/50, 25/75, 10/90, 0/100 are obtained as the materials for support by the treatment with excess aqueous ammonia solution. After working up the seven co-precipitates in a manner similar in example 1, they are calcined at 550° C. for 2 hours and then impregnated with an aqueous solution of nickel nitrate such that the impregnated materials contain 2% by weight of metal nickel calculated on the dried basis. The impregnated materials are dried at 90° C. and then tested for their activities respectively in a

reactor under the same reduction conditions and the reaction conditions are as follows:

reduction temperature	300° C.
reduction time	2 hours
reaction temperature	120° C.
reaction pressure	8 atm
liquid hourly space velocity	4 v/v/hr
C ₆ H ₆ /H ₂ mole ratio	1/6 mole/mole

The result of the test is summarized in Table 3 which shows that a better activity can be obtained for the support in which the atomic ratio of Ti/Zr ranges from 3/1 to 1/3.

TABLE 3

The effect of the support composition on the activity of the supported catalyst 2% Ni/TiO ₂ -ZrO ₂	
atomic ratio of Ti/Zr	conversion, %
100/0	72
90/10	74
75/25	76
50/50	84
25/75	78
10/90	65
0/100	56

EXAMPLE 4

Change in the activity of the supported catalyst obtained by supporting with different amounts of metal on the supports which was calcined at different temperature

Starting with solutions of titanium chloride (TiCl₄) and of zirconium chloride (ZrCl₄) in anhydrous ethanol, a coprecipitate of the hydroxide of Ti/Zr in a mole ratio of 1/1 is obtained as the material for support by the treatment with excess ammonia solution. After working up the co-precipitate in a manner similar in example 1, the support is divided into four equal portions which are calcined at 450° C., 550° C., 650° C. and 750° C. respectively for 2 hours. Each portion of supports is further subdivided into several equal parts which are then impregnated separately with unequal amount of nickel nitrate solutions of the same concentration so as to obtain supported catalysts in which the amounts of nickel are different with one another. The supported catalyst thus obtained are compared for activity with respect to the pre-treatment condition and the reaction conditions are as follows:

calcination temperature of catalyst	90° C.
reduction temperature	300+° C.
reduction time	2 hours
reaction temperature	100° C.
reaction pressure	6 atm
liquid hourly space velocity	6 v/v/hr
C ₆ H ₆ /H ₂ mole ratio	1/9 mole/mole

The result is summarized in Table 4 which shows that the supported catalysts display better activity when the supports thereof have been calcined at 450° C. to 650° C. Meanwhile, in preparing the supports the surface area of the supports is varied with calcination temperature which also results in the variation of the best nickel content. The result is summarized in Table 5.

TABLE 4

Change in the activity of the supported catalysts obtained by supporting with different amounts of metal supports calcined at different temperature (expressed by conversion, %) wherein the supports used are $\text{TiO}_2/\text{ZrO}_2 = 1/1$

temperature at which supports are calcined (°C.)	nickel amounts on the supports								
	2	4	6	8	10	12	14	16	18
450	—	—	60	72	85	95	98	93	68
550	—	—	66	76	87	91	91	83	62
650	43	65	77	81	72	59	—	—	—
750	14	32	42	45	44	36	—	—	—

TABLE 5

The relationship between the surface area of the supports and the optimal supported metal content wherein the metal content is expressed by weight % and the supports used are $\text{TiO}_2/\text{ZrO}_2 = 1/1$

surface area of the support (m ² /g)	calcination temperature, °C.			
	450	550	650	750
275	14.5	—	—	—
240	—	12.5	—	—
130	—	—	8.2	—
55	—	—	—	7.9

The supported nickel catalyst of this application prepared by supporting nickel catalyst on mixed metal oxide of $\text{TiO}_2/\text{ZrO}_2$ as support is much superior to the conventional supported nickel catalyst in which alumina or diatomaceous earth is used as support with respect to the performance in converting benzene into cyclohexane, which may be confirmed by way of the following three reference examples:

REFERENCE EXAMPLE 1

The comparison of the activity of the supported catalysts in which $\text{TiO}_2/\text{ZrO}_2$, alumina and diatomaceous earth are used as supports respectively

TABLE 6

operational conditions:
reaction temperature: 100°C. liquid hourly space velocity;
6 v/v/hr,
reaction pressure: 6 atms;

type of catalyst	conversion rate of benzene
2%Ni/Al ₂ O ₃	15
2%Ni/SiO ₂	11
2%Ni/TiO ₂ -ZrO ₂ (1/1, 650° C.)	43

Table 6 shows that the supported catalyst of the present invention actually gets improved over the conventional supported catalysts in the hydrogenation of benzene.

REFERENCE EXAMPLE 2

Comparison of the supported catalyst with the commercially available catalysts with respect to activity

TABLE 7

operation conditions:
reaction temperature 100° C.
liquid hourly space velocity 6 v/v/hr
reaction pressure 6 atm
 $\text{C}_6\text{H}_6/\text{H}_2$ mole ratio 1/9 mole/mole

type of catalyst	conversion, %
commercially available catalyst A	93
commercially available catalyst B	85
15%Ni/TiO ₂ -ZrO ₂ (1/1, 450° C.) of the present invention	98

In above table 7 commercially available catalyst A comprises 10% by weight of Ni on Al₂O₃, while commercially available catalyst B comprises raney nickel as main ingredient. Table 2 shows that under mild opera-

tion condition the supported catalyst of the present invention is more active than those catalyst currently used is the industry.

REFERENCE EXAMPLE 3

Measurement of the activity of the catalysts after long-time performance test with different feed composition

TABLE 8

operation conditions:
reaction temperature 150° C.
liquid hourly space velocity 6 v/v/hr
reaction pressure 20 atm
 $\text{C}_6\text{H}_6/\text{H}_2$ mole ratio 1/7 mole/mole
testing period 120 hour

type of catalyst	conversion of benzene after 120 hrs, %	
	benzene: 100% cyclohexane: 0%	benzene: 13% cyclohexane: 87%
14%Ni/TiO ₂ -ZrO ₂ (1/1, 450° C.) of the present invention	99.80	99.96
commercially available catalyst A	99.75	99.92

Table 8 shows that after being long-time used (120 hours) under more severe operation conditions the supported catalyst of the present invention is superior to the conventionally available catalyst formerly used in the industry with respect to activity irrespective as to whether benzene is used alone or the mixture of benzene and cyclohexane is used as feed.

What we claimed is:

1. A process for converting benzene to cyclohexane by hydrogenation over a supported nickel catalyst comprising the steps of:

mixing together and precipitating solutions of titanium compounds and zirconium compounds wherein said compounds are present in a atomic ratio of 25 Ti/75 Zr to 75 Ti/25 Zr;

calcining said mixture at a temperature between 450° C. and 750° C. to produce a support;

impregnating the surface of said support with a solution of nickel salt such that the nickel content is 2-18 weight percent based on the supported catalyst;

calcining the resulting support at a temperature below 150° C.;

reducing the supported catalyst at 250°-350° C.;

and hydrogenating benzene to cyclohexane in a gas phase reaction by passing said benzene over said catalyst.

2. The process according to claim 1 wherein benzene or a mixture of benzene and cyclohexane is used as a feed.

3. The process according to claim 1 wherein the said hydrogenation is carried out under the conditions as follows:

reaction temperature	90-250° C.
reaction pressure	5-30 atm
liquid hourly space velocity	2-12 v/v/hr
$\text{C}_6\text{H}_6/\text{H}_2$ mole ratio	1/3-20 mole/mole

4. A process according to claim 1 wherein the atomic ratio of titanium to zirconium is 1:1.

5. A process according to claim 1 wherein said mixture is calcined at a temperature between 450° C. and 550° C.

6. A process according to claim 1 wherein the nickel content is 12-14 weight percent.

* * * * *

(12) **United States Patent**
Sanderson et al.

(10) Patent No.: **US 6,750,374 B2**
(45) Date of Patent: **Jun. 15, 2004**

(54) **MANUFACTURE OF CYCLOHEXANE FROM BENZENE AND A HYDROGEN SOURCE CONTAINING IMPURITIES**

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(63) Continuation-in-part of application No. 09/597,313, filed on Jun. 20, 2000, now abandoned.

(60) Provisional application No. 60/148,166, filed on Aug. 10, 1999.

(51) Int. Cl.⁷ **C07C 5/10**

(52) U.S. Cl. **585/267; 585/270**

(58) Field of Search **585/270, 267**

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(57) **ABSTRACT**

A process for producing cyclohexane by benzene hydrogenation using a hydrogen source that contains impurities, such as carbon monoxide and/or light hydrocarbons, wherein a supported catalyst reduces benzene to cyclohexane and carbon monoxide to methane and water. Alkenes, such as ethylene, are also reduced to their alkane counterparts. Under the disclosed operating conditions, the process proceeds without deactivation of the catalyst, and without the formation of a significant amount of cracking products, such as methylcyclopentane.

20 Claims, No Drawings

MANUFACTURE OF CYCLOHEXANE FROM BENZENE AND A HYDROGEN SOURCE CONTAINING IMPURITIES

CROSS REFERENCE TO RELATED APPLICATIONS

This continuation-in-part application claims the benefit of U.S. Nonprovisional application Ser. No. 09/597,313, filed on Jun. 20, 2000 now abandoned, which claims the benefit of U.S. Provisional Application No. 60/148,166, filed on Aug. 10, 1999.

TECHNICAL FIELD

This invention relates to a process for producing cyclohexane by benzene hydrogenation, and, more particularly, to a process for producing cyclohexane by benzene hydrogenation using a hydrogen source that contains impurities.

BACKGROUND OF THE INVENTION

Over the years, researchers have developed numerous processes for manufacturing cyclohexane from the hydrogenation of benzene. For the most part, the majority of these various processes differ from each other in the techniques used to compensate for impurities, found in either the reaction components themselves or that are generated during the hydrogenation process.

For example, U.S. Pat. No. 3,711,566 (Estes et al.) describes a process in which aromatic hydrocarbon feedstocks containing sulfur are hydrogenated using a fluorided-platinum catalyst. Sulfur, a known poison to platinum catalysts, causes rapid deactivation of the catalyst as the hydrogenation process proceeds. Adding fluorine to the catalyst reduces sulfur poisoning; however, this undesirably increases hydrocracking activity that also deactivates the catalyst. Estes et al. inhibited hydrocracking activity by adding extremely small amounts, of carbon monoxide (a poison of metal catalysts itself) to the pure-hydrogen feed stream. This allowed the carbon monoxide to interact with the acidity of the fluorided-catalyst surface and prevent reactions, like hydrocracking, from taking place. Because carbon monoxide can also poison and deactivate the catalyst, care must be exercised in both purifying the hydrogen feed stream and in adding the carbon monoxide to the pure-hydrogen feed stream in order to achieve proper hydrogenation. This type of hydrogenation process therefore appears most useful when the hydrocarbon feedstock contains substantial amounts of sulfur requiring the catalyst to contain fluorine to prevent the sulfur from poisoning the catalyst.

U.S. Pat. No. 4,626,604 (Hiles et al.) describes a process in which hydrogenation occurs in a series of catalytic stages using at least three adiabatic reaction vessels. Because hydrogenation occurs in stages, lower operating temperatures can be used, which in turn reduces the formation of byproducts such as esters that can poison the catalysts and decrease, catalytic activity. However, Hiles et al. requires that the liquid unsaturated aromatic hydrocarbon be vaporized prior to mixing with the hydrogen gas. Portions of the vaporized unsaturated aromatic hydrocarbon are then hydrogenated in each catalytic stage before the saturated hydrocarbon is cooled and condensed back to liquid-form.

Of particular concern in a conventional hydrogenation of benzene process are impurities found in the hydrogen source, because such impurities often deactivate the catalyst used to promote the hydrogenation reaction. Carbon mon-

oxide is one such impurity that can reversibly poison catalysts, like nickel, used in benzene hydrogenation processes. In the poisoning process, carbon monoxide is adsorbed onto the active sites of the nickel catalyst surface, thereby reducing the activity of the catalyst. Depending on the concentration of carbon monoxide in the hydrogen source, the nickel catalyst can rapidly deactivate.

Once the nickel catalyst has deactivated, the catalyst may be regenerated by heating the catalyst at a temperature from about 220° C. to about 260° C. Because this regeneration process may not be completed in the presence of benzene or cyclohexane (the temperatures required for regeneration tend to promote the formation of large quantities of undesirable cracking products), the reactor must be taken off-line before regeneration of the catalyst. Due to the obvious inconvenience associated with taking the reactor off-line, most conventional benzene hydrogenation processes are designed to limit or prevent deactivation of the catalysts.

In order to prevent or limit deactivation of the nickel catalysts commonly used in benzene hydrogenation processes, most conventional processes require that a highly pure hydrogen source be used. Relatively pure hydrogen sources may be obtained from a steam reformer, and such hydrogen streams typically contain about 96 mole % hydrogen, about 4 mole % methane, and less than about 10 ppm of carbon monoxide and other impurities. Even with such low carbon monoxide levels, these hydrogen streams must still often be further purified to reduce the carbon monoxide levels to less than about 1 ppm before use. As such, these hydrogen streams tend to be expensive, yet they are frequently used because no other alternatives have been available.

Less pure sources of hydrogen are available from steam cracking, catalytic reforming, and hydroalkylation. Hydrogen streams obtained from these sources typically contain from about 10 mole % to about 80 mole % hydrogen, with the remainder comprising impurities such as methane, other light hydrocarbons, and/or carbon monoxide. The level of carbon monoxide in hydrogen streams from these sources is often as great as about 5000 ppm, which often prevents the use of these hydrogen sources in conventional benzene hydrogenation processes.

Therefore, what is needed is a process that: (i) promotes the hydrogenation of benzene to cyclohexane that operates using a lower purity, and thereby, a less expensive source of hydrogen; (ii) proceeds without deactivation of the catalyst due to the presence of carbon monoxide or other impurities in the hydrogen source; and (iii) promotes the hydrogenation of benzene without contributing to the formation of a significant amount of cracking products, such as methylcyclopentane.

SUMMARY OF THE INVENTION

The present invention, accordingly, provides for a process of producing cyclohexane by benzene hydrogenation using a hydrogen source that contains impurities. The supported catalysts used in the present invention reduce benzene to cyclohexane, and reduce carbon monoxide to methane and water. Alkenes, such as ethylene, are also reduced to their alkane counterparts. An advantage of the present invention is that the catalysts used in the disclosed process, if used under the reaction conditions disclosed, do not deactivate in the presence of carbon monoxide or other impurities typically found in hydrogen sources. Another advantage is that the disclosed process proceeds without the formation of a significant amount of cracking products, such as methylcyclopentane.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

The present invention provides for a process for causing the simultaneous production of cyclohexane from the hydrogenation of benzene and chemical reduction of certain impurities that may be present in the reactants. The process involves providing a first stream comprising benzene; providing a second stream comprising hydrogen and impurities; mixing the first and the second streams to form a reactive mixture; and contacting the reactive mixture with a catalyst to effectuate the reduction of the benzene and impurities. Under the preferred reaction conditions of the present invention, the catalyst will not deactivate rapidly, high benzene and hydrogen conversions will be obtained, and cracking product formation will be held within acceptable limits.

The hydrogen stream used in the process of the present invention may be obtained from a variety of sources, including, but not limited to, steam cracking, catalytic reforming, and/or hydroalkylation. Preferably, the hydrogen source should contain no more than about 15 mole % of impurities, such as, but not limited to, carbon monoxide or light hydrocarbons. More preferably, the hydrogen source should contain no more than about 5 mole % of carbon monoxide and about 10 mole % of light hydrocarbons. The light hydrocarbons may comprise alkanes and/or alkenes with from about one to about three carbon atoms, including, but not limited to, methane and/or ethylene.

The benzene stream may be obtained from any number of sources, including, but not limited to, hydrodealkylation, pyrolysis, catalytic reforming or fractional distillation.

The catalysts used in the process of the present invention may be prepared according to any suitable technique known in the art. Typically, the catalyst comprises nickel and copper. The catalyst may also optionally comprise chromium, manganese, iron, cobalt, zinc, molybdenum, tin, or combinations thereof. Preferably, the catalyst comprises from about 15 weight % to about 35 weight % nickel, from about 1 weight % to about 15 weight % copper, and from about 0 weight % to about 5 weight % chromium, manganese, iron, cobalt, zinc, molybdenum, tin, or mixtures thereof. More preferably, the catalyst comprises from about 22 weight % to about 28 weight % nickel, from about 2 weight % to about 6 weight % copper, and from about 0 weight % to about 3 weight % chromium, manganese, iron, cobalt, zinc, molybdenum, tin, or mixtures thereof. The support for the catalyst may comprise any material suitable for a support. Preferably, the support comprises either alumina or silica.

Surprisingly, the catalysts used in the process of the present invention do not lose catalytic activity in the presence of impurities, including carbon monoxide, that are contained in the hydrogen source. Nickel catalysts are notoriously well known in the art to be poisoned by carbon monoxide, as discussed above. The process of the present invention prevents this poisoning while reducing benzene to cyclohexane at sufficient rates. Also surprisingly, the catalysts not only function to reduce benzene to cyclohexane, but also reduce carbon monoxide to methane and water, and alkenes, such as ethylene, to their alkane counterparts. Unexpectedly, the reduction of benzene and the impurities proceeds with minimal formation of cracking products, such as methylcyclopentane, even at increased temperatures.

In order to practice the process of the present invention, any suitable reaction vessel may be used. Preferably, the reaction vessel is a reactor. More preferably, the reaction vessel is a jacketed, stainless steel, tubular reactor.

The process of the present invention should be conducted under conditions sufficient to promote the reduction of benzene and the impurities in the reactive mixture. It will be understood by those skilled in the art that conditions of temperature and pressure may vary depending on other variables such as the desired conversion, benzene concentration, hydrogen concentration, carbon monoxide concentration, catalyst particle size, catalyst composition, the heating/cooling efficiency of the reactor system, etc.

Generally, during operation, the exotherm or hot spot temperature in the reactor should be maintained above about 160° C. Preferably, the exotherm or hot spot temperature in the reactor should be maintained from about 160° C. to about 340° C. More preferably, the exotherm or hot spot temperature in the reactor should be maintained from about 190° C. to about 280° C.

Generally, the reactor pressure should be maintained above about 50 psig. Preferably, the reactor pressure should be maintained from about 250 psig to about 2500 psig, and more preferably, from about 400 psig to about 800 psig.

In the process of the present invention, it is preferable to use an excess of benzene, relative to the amount of hydrogen. Under such conditions, the process should be used in, a "front-end" reactor (ie. where the reactor is the first reactor in a series of reactors). The resulting product may then be "finished off" (ie. the benzene levels may be reduced to ppm levels) by a subsequent reactor.

The final cyclohexane product can be collected by separation means generally used in separating liquids such as distillation, centrifugation, density differences or chromatography.

While it is the preferred method to use an excess of benzene in carrying out the process of the present invention, it would be obvious to one skilled in the art that an excess of impure hydrogen, relative to the amount of benzene, could also be used with the catalysts and conditions disclosed in the present invention.

The following examples are illustrative of the present invention, and are not intended to limit the scope of the invention in any way.

Catalyst A (Comparative)

Catalyst A is a conventional, highly active nickel on silica catalyst, available from the Engelhard Corporation, Beachwood, Ohio, under the name Ni-5256 E $\frac{3}{4}$. It contains 57% nickel, has a surface area of 260 m²/g, a total pore volume of 0.5 cc/g, and was in the form of $\frac{3}{4}$ inch diameter extrusions. Before use, the catalyst was reduced and stabilized. This catalyst is recommended by the supplier for use in benzene hydrogenation processes.

Catalyst B

Catalyst B is a 24% nickel and 4.5% copper catalyst on an alumina support. It was prepared using the standard technique of impregnation of a formed alumina support ($\frac{1}{16}$ inch extrusion, surface area 100 m²/g) with an aqueous solution of nickel and copper nitrates. The wet impregnated support was dried in an oven to remove the water, and then calcined at about 400° C. to decompose the nitrates to the corresponding nickel and copper oxides. The catalyst precursor was then "activated" by reaction with hydrogen, at temperature of about 300° C. Following activation, the catalyst was stabilized to air with dilute oxygen, at a low temperature. The final catalyst had a surface area of 68 m²/g, and a pore volume of 0.40 cc/g.

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Catalyst C

Catalyst C was prepared by co-precipitating a mixture of nickel, copper, and chromium carbonates from an aqueous solution of the mixed metal nitrates and sodium carbonate. The precipitated mixture was then washed with fresh water, dried, and then calcined to produce an oxide powder. The oxide powder was then compounded with fine gamma alumina powder, and the resulting product was formed into 1/16 inch diameter extrusions. The extrusions were then dried, calcined, activated by reaction with hydrogen, and then stabilized to air by partial reoxidation with air under controlled conditions. The catalyst contained 26.3% nickel, 3.9% copper, and 0.92% chromium. The catalyst had a surface area 209 m²/g, and a pore volume of 0.46 cc/g.

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commercially sold for use in benzene hydrogenation processes.

EXAMPLE 2 (COMPARATIVE)

A was charged to the reactor, and cyclohexane (80 wt. %)/benzene (20 wt. %) was pumped through the reactor at about 500 g per hour. Methylcyclopentane (60 ppm) was present in liquid feed. Hydrogen (25 mole %)/methane (75 mole %) that contained 2000 ppm of carbon monoxide was fed into the reactor at such a rate that benzene was always in molar excess relative to the hydrogen (approximately 75 to 85% benzene conversion, at 100% hydrogen conversion). The following results were obtained:

TABLE II

Dowtherm Temp. (° C.)	Hot Spot Temp. (° C.)	Hydrogen Conv. (%)	Benzene Conv. (%)	MCP (ppm)	MCP produced (ppm)	Time on-stream (hrs.)
100	144	75.2	42.1	60	0	1.0
100	106	50.0	12.9	50	0	7.0
140	206	98.9	80.1	470	410	21.0

Hydrogenation

The reactor was a Dowtherm-jacketed 1.338"x30" stainless-steel tube equipped with a 1/4" thermowell running up through the center of the tube. For each run, the reactor was filled with 250-mL of a catalyst (either catalyst A, B, or C), with glass beads added at the top and bottom of the catalyst.

Liquid benzene (20 wt. %)/cyclohexane (80 wt. %) and gaseous hydrogen (25 mole %)/methane (75 mole %), with and without various impurities, were fed into the reactor through a static mixer. The reactor pressure was maintained at about 500 psig by means of a backpressure regulator. Both liquid and gaseous samples were collected in stainless-steel bombs and analyzed by a gas chromatograph.

EXAMPLE 1 (COMPARATIVE)

Catalyst A was charged to the reactor, and cyclohexane (80 wt. %)/benzene (20 wt. %) was pumped through the reactor at about 500 g per hour. Methylcyclopentane (60ppm) was present in the liquid feed. Hydrogen (25 mole %)/methane (75 mole %) was fed into the reactor at such a rate that benzene was always in molar excess, relative to the hydrogen (approximately 75 to 85 benzene conversion at 100% hydrogen conversion). No carbon monoxide was present in the hydrogen/methane feed. The following results were obtained:

TABLE I

Dowtherm Temp. (° C.)	Hot Spot Temp. (° C.)	Hydrogen Conversion (%)	Benzene Conversion (%)	Methylcyclopentane (ppm)
100	158	99.7	86.8	60
120	171	99.6	83.5	90
140	191	99.4	87.3	250

The results of this example show that catalyst A is highly operable when carbon monoxide is not in the hydrogen/methane feed. This result is expected because this catalyst is

The results of this example demonstrate that catalyst A tends to deactivate in the presence of carbon monoxide. After only one hour on-stream, the percent of benzene and hydrogen conversion is significantly below the conversion seen for this catalyst in the absence of carbon monoxide (Example 1). After seven hours on-stream, the percent of hydrogen and benzene conversion drops even more, indicating that the catalyst is undergoing deactivation. Further, at the highest hot spot temperature (i.e. 206° C.), the amount of methylcyclopentane produced is prohibitively high.

EXAMPLE 3

Catalyst B was charged to the reactor, and cyclohexane (80 wt. %)/benzene (20 wt. %) was pumped through the reactor at about 500 g per hour. Methylcyclopentane (110 ppm) was present in the liquid feed. Hydrogen (25 mole %)/methane (75 mole %) was fed into the reactor at such a rate that benzene was always in molar excess relative to the hydrogen (approximately 75 to 85% benzene conversion at 100% hydrogen conversion). No carbon monoxide was present in the hydrogen/methane feed. The following results were obtained:

TABLE III

Dowtherm Temp. (° C.)	Hot Spot Temp. (° C.)	Hydrogen Conversion (%)	Benzene Conversion (%)	Methylcyclopentane (ppm)
120	162	99.1	83.3	60
140	182	99.7	83.8	90
160	189	99.7	84.0	250
180	216	99.6	83.6	420

The results of this example demonstrate that catalyst B is highly operable in the absence of carbon monoxide in the hydrogen/methane feed.

EXAMPLE 4

Catalyst B was charged to the reactor, and cyclohexane (80 wt. %)/benzene (20 wt. %) was pumped through the reactor at about 500 g per hour. Methylcyclopentane (110

ppm) was present in the liquid feed. Hydrogen (25 mole %)/methane (75 mole %) that contained 2000 ppm of carbon monoxide was fed into the reactor at such a rate that benzene was always in molar excess relative to the hydrogen (approximately 75 to 85% benzene conversion at 100% hydrogen conversion). The following results were obtained:

TABLE IV

Dowtherm Temp. (° C.)	Hot Spot Temp. (° C.)	Hydrogen Conv. (%)	Benzene Conv. (%)	MCP (ppm)	MCP produced (ppm)	Time on-stream (hrs.)
158	184	100	84.3	170	60	1.0
171	204	100	82.5	310	200	15
170	183	100	81.1	230	120	32

The results of this example show that catalyst B does not deactivate, and remains operable even in the presence of carbon monoxide in the hydrogen/methane feed. Even after 32 hours on-stream, hydrogen conversion remains at 100%, and benzene conversion only drops slightly. While the levels of methylcyclopentane slightly increase over-time, and with increasing hot spot temperatures, the methylcyclopentane levels are still within acceptable limits.

EXAMPLE 5

Catalyst B was charged to the reactor, and cyclohexane (80 wt. %)/benzene (20 wt. %) was pumped through the reactor at about 500 g per hour. Methylcyclopentane (60 ppm) was present in the liquid feed. Hydrogen (25 mole %)/methane (75 mole %)/ethylene (1.5 mole %) that contained 2000 ppm of carbon monoxide was fed into the reactor at such a rate that benzene was always in molar excess relative to the hydrogen (approximately 75 to 85% benzene conversion at 100% hydrogen conversion). The following results were obtained:

TABLE V

Dowtherm Temp. (° C.)	Hot Spot Temp. (° C.)	Hydrogen Conversion (%)	Benzene Conversion (%)	Methylcyclopentane (ppm)	Ethane (Mol %)
120	162	98.1	80.0	70	1.73
140	184	98.2	83.4	100	1.77
160	203	98.0	85.6	280	1.80

The results of this example demonstrate that the addition of ethylene to the hydrogen/methane/carbon monoxide feed does not adversely affect the activity of catalyst B. As the results show, catalyst B is capable of quantitatively converting ethylene in the hydrogen/methane/carbon monoxide feed to ethane, while at the same time, the catalyst continues to promote high hydrogen and benzene conversion, as well as minimal methylcyclopentane production.

EXAMPLE 6

Catalyst C was charged to the reactor, and cyclohexane (80 wt. %)/benzene (20 wt. %) was pumped through the reactor at about 500 g per hour. Methylcyclopentane (110 ppm) was present in the liquid feed. Hydrogen (25 mole

)/methane (75 mole %) was fed into the reactor at such a rate that benzene was always in molar excess relative to the hydrogen (75 to 85% benzene conversion at 100% hydrogen conversion). No carbon monoxide was present in the hydrogen/methane feed. The following results were obtained:

TABLE VI

Dowtherm Temperature (° C.)	Hot Spot Temperature (° C.)	Hydrogen Conversion (%)	Benzene Conversion (%)	Methylcyclopentane (ppm)
160	209	99.2	87.5	190
140	184	99.4	85.2	100

The results of this example demonstrate that catalyst C is operable in the absence of carbon monoxide in the hydrogen/methane feed.

EXAMPLE 7

Catalyst C was charged to the reactor, and cyclohexane (80 wt. %)/benzene (20 wt. %) was pumped through the reactor at about 500 g per hour. Methylcyclopentane (110 ppm) was present in the liquid feed. Hydrogen (25 mole %)/methane (75 mole %) that contained 2000 ppm carbon monoxide was fed into the reactor at such a rate that benzene

was always in molar excess relative to the hydrogen (75 to 85% benzene conversion at 100% hydrogen conversion). The following results were obtained:

TABLE VII

Dowtherm Temperature (° C.)	Hot Spot Temperature (° C.)	Hydrogen Conversion (%)	Benzene Conversion (%)	Methylcyclopentane (ppm)
156	247	82.6	58.7	780
156	197	97.7	77.4	170
165	198	98.1	77.7	160
178	218	98.9	75.5	260

The results of this example demonstrate that catalyst C promotes high hydrogen and benzene conversion, as well as minimal methylcyclopentane production when the hot spot temperature is below about 247° C. At a temperature of about 247° C., catalyst C tends to show reduced hydrogen

and benzene conversion, as well as higher levels of methylcyclopentane production. This result tends to indicate that a hot spot temperature of 247° C. is somewhat above the desired hot spot temperature for catalyst C.

Although illustrative embodiments have been shown and described, a wide range of modification, changes, and substitution is contemplated in the foregoing disclosure. In some instances, some features of the disclosed embodiments may be employed without a corresponding use of the other features. Accordingly, it is appropriate that the appended claims be construed broadly and in a manner consistent with the scope of the invention.

What is claimed is:

1. A process for producing cyclohexane from benzene which comprises the steps of:

- a) providing a first stream comprising benzene;
- b) providing a second stream which is predominantly hydrogen and also comprises carbon monoxide;
- c) mixing the first and the second streams to form a reactive mixture;
- d) contacting the reactive mixture with a catalyst comprising nickel, copper, and at least one other element selected from the group consisting of: chromium, manganese, iron, cobalt, zinc, molybdenum, tin, and mixtures thereof, so as to provide a reaction product mixture; and
- e) recovering cyclohexane from the reaction product mixture, to provide a cyclohexane product.

2. A process according to claim 1 wherein the content of carbon monoxide in the second stream is any amount between 0.0010% to 1.000% by weight based upon the total weight of the second stream.

3. A process according to claim 1 wherein the content of cyclohexane in the reaction product mixture is any amount in the range between 20.00% and 99.99% by weight based upon the total weight of the reaction product mixture.

4. A process according to claim 1 wherein a methylcyclopentane content in the cyclohexane product is less than 300 parts per million by weight based upon the total weight of the cyclohexane.

5. A process according to claim 1 wherein the cyclohexane product is recovered by distillation.

6. A process according to claim 1 in which benzene is present in the first stream in an amount of between 20% and 100% by weight based upon the total weight of the first stream.

7. A process according to claim 1 wherein the reactive mixture is maintained at any temperature in the range of between 100° C. and 340° C.

8. A process according to claim 1 wherein the reactive mixture is maintained at any pressure in the range of between 50 psig and 2500 psig.

9. A process according to claim 1 wherein the nickel content of the catalyst is any amount between 15.00% and

35.00 percent by weight, including every hundredth percentage therebetween.

10. A process according to claim 1 wherein the copper content of the catalyst is any amount between 1.00% and 15.00% percent by weight based upon the total weight of the catalyst, including every hundredth percentage therebetween.

11. A process according to claim 1 wherein chromium is present in the catalyst in any amount between 0.10% and 5.00% percent by weight based upon the total weight of the catalyst, including every hundredth percentage therebetween.

12. A process according to claim 1 wherein the catalyst is a supported catalyst and is supported on a support material selected from the group consisting of: silica and alumina.

13. A process according to claim 1 wherein the molar quantity of benzene in the reactive mixture is greater than the molar quantity of hydrogen in the reactive mixture.

14. A process according to claim 1 wherein the molar quantity of hydrogen in the reactive mixture is greater than the molar quantity of benzene in the reactive mixture.

15. A process for the hydrogenation of benzene comprising:

- a) providing a first stream comprising benzene;
- b) providing a second stream that is predominantly hydrogen and further comprises carbon monoxide;
- c) charging a reaction vessel with a catalyst comprising nickel, copper, and at least one other element selected from the group consisting of: chromium, manganese, iron, cobalt, zinc, molybdenum, tin, and mixtures thereof;
- d) mixing the first and second streams to form a reactive mixture;
- e) feeding the reactive mixture to the reaction vessel so that the reactive mixture contacts the catalyst to provide a reaction product mixture; and
- f) recovering cyclohexane from the reaction product mixture, to provide a cyclohexane product.

16. A process according to claim 15 wherein the second stream further comprises light hydrocarbons having about one to about three carbon atoms.

17. A process according to claim 15 wherein the reactive mixture is maintained at a temperature of about 100° C. to about 340° C.

18. A process according to claim 15 wherein the reactive mixture is maintained at a pressure of about 50 psig to about 2500 psig.

19. A process according to claim 15 wherein the reaction vessel is a reactor and mixing of the first stream and the second stream is accomplished in a static mixer.

20. A process according to claim 15 wherein the cyclohexane product is recovered by separation means.

* * * * *

Attachment 3

Gulfco Customer Job Summary
BASF Corporation

Gulfc0 Customer Job Summary

For the Period 1994 - 1997

Sorted by Vessel Name and Job Number

Customer: BASF

Address: 607 Copper Road, Freeport, TX 77541-

Address Notes:

Vessel Name: ETT-110

<u>Hercules Job No:</u>	<u>4309</u>	<u>Date:</u>	<u>7/14/1994</u>	<u>Documents:</u>	<u>Job Files, includes Invoice</u>
Cargo/Chemicals:	CYCLOHEXANE	EPA File No:	R6JZ010001000196		
Work Type:	STRIP, BLOW	PDF File:	8000680.pdf		
File Contents:	4309 - ETT-110 - BASF / HERCULES - CYCLOHEXANE		Bates Number:	HER 03685	

<u>Hercules Job No:</u>	<u>4324</u>	<u>Date:</u>	<u>7/31/1994</u>	<u>Documents:</u>	<u>Job Files, includes Invoice</u>
Cargo/Chemicals:	CYCLOHEXANE	EPA File No:	R6JZ010001000197		
Work Type:	STRIP, BLOW	PDF File:	8000681.pdf		
File Contents:	4324 - ETT-110 - BASF / HERCULES - CYCLOHEXANE		Bates Number:	HER 03702	

<u>Hercules Job No:</u>	<u>4363</u>	<u>Date:</u>	<u>9/28/1994</u>	<u>Documents:</u>	<u>Job Files, includes Invoice</u>
Cargo/Chemicals:		EPA File No:	R6JZ010001000205		
Work Type:	MAINTENANCE	PDF File:	8000689.pdf		
File Contents:	4363 - ETT-110 - BASF / HERCULES - MAINTENANCE ON BALLAST		Bates Number:	HER 03849	

<u>Hercules Job No:</u>	<u>4369</u>	<u>Date:</u>	<u>9/28/1994</u>	<u>Documents:</u>	<u>Job Files, includes Invoice</u>
Cargo/Chemicals:		EPA File No:	R6JZ010001000207		
Work Type:	MAINTENANCE	PDF File:	8000691.pdf		
File Contents:	4369 - ETT-110 - BASF / HERCULES - MAINTENANCE ON BALLAST		Bates Number:	HER 00000	

<u>Hercules Job No:</u>	<u>4398</u>	<u>Date:</u>	<u>10/19/1994</u>	<u>Documents:</u>	<u>Job Files, includes Invoice</u>
Cargo/Chemicals:		EPA File No:	R6JZ010001000214		
Work Type:	MAINTENANCE	PDF File:	8000698.pdf		
File Contents:	4398 - ETT-110 - BASF / HERCULES - MAINTENANCE ON BALLAST		Bates Number:	HER 03956	

Customer: BASF continued

Hercules Job No: <u>4503</u>	Date: 1/30/1995	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE	EPA File No: R6JZ010001000257	
Work Type: STRIP, BLOW	PDF File: 8000738.pdf	
File Contents: 4503 - ETT-110 - BASF / HERCULES - CYCLOHEXANE	Bates Number: HER 04868	

Hercules Job No: <u>4558</u>	Date: 3/4/1995	Documents: Job Files, includes Invoice
Cargo/Chemicals: BUTANOL	EPA File No: R6JZ010001000280	
Work Type:	PDF File: 8000761.pdf	
File Contents: 4558 - ETT-110 - BASF / HERCULES - N - BUTANOL	Bates Number: HER 05284	

Hercules Job No: <u>4643</u>	Date: 4/28/1995	Documents: Job Files, includes Invoice
Cargo/Chemicals:	EPA File No: R6JZ010001000316	
Work Type: MAINTENANCE	PDF File: 8000797.pdf	
File Contents: 4643 - ETT-110 - BASF / HERCULES - MAINTENANCE ON BALLAST	Bates Number: HER 06016	

Hercules Job No: <u>4694</u>	Date: 6/6/1995	Documents: Job Files, includes Invoice
Cargo/Chemicals: BUTANOL	EPA File No: R6JZ010001000319	
Work Type:	PDF File: 8000799.pdf	
File Contents: 4694 - ETT-110 - BASF / HERCULES - N - BUTANOL	Bates Number: HER 06044	

Hercules Job No: <u>4700</u>	Date: 6/15/1995	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANOL (Anolon-Cyclohanone/Cyclohe	EPA File No: R6JZ010001000320	
Work Type: STRIP, BLOW, HOT WATER WASH	PDF File: 8000800.pdf	
File Contents: 4700 - ETT-110 - BASF / HERCULES - ANOLON (CYCLOHEXANONE / CYCLOHEXANOL)	Bates Number: HER 06059	

Hercules Job No: <u>4852A</u>	Date: 9/30/1995	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE	EPA File No: R6JZ010001000334	
Work Type:	PDF File: 8000809.pdf	
File Contents: 4852A - ETT-110 - BASF / HERCULES - CYCLOHEXANE	Bates Number: HER 06242	

Hercules Job No: <u>4889</u>	Date: 10/25/1995	Documents: Job Files, includes Invoice
Cargo/Chemicals:	EPA File No: R6JZ010001000339	
Work Type: MAINTENANCE	PDF File: 8000814.pdf	
File Contents: 4889 - ETT-110 - BASF / HERCULES - MAINTENANCE ON BALLAST	Bates Number: HER 06307	

Customer: BASF continued

Hercules Job No: <u>5004</u>	Date: 4/3/1996	Documents: Job Files
Cargo/Chemicals: CYCLOHEXANE	EPA File No:	R6JZ010001000014
Work Type: Not Apparent	PDF File:	8000114.pdf
File Contents: 5004 - ETT-110 - BASF / HERCULES - CYCLOHEXANE	Bates Number:	HER 00347

Hercules Job No: <u>5015</u>	Date: 4/30/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: None Listed	EPA File No:	R6JZ010001000013
Work Type: STRIP	PDF File:	8000113.pdf
File Contents: 5004 / 15 - ETT-110 - BASF / HERCULES - NO PRODUCT LISTED	Bates Number:	HER 00337

Hercules Job No: <u>5044</u>	Date: 5/31/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE	EPA File No:	R6JZ010001000022
Work Type:	PDF File:	8000122.pdf
File Contents: 5044 - ETT-110 - BASF / HERCULES - CYCLOHEXANE	Bates Number:	HER 00520

Hercules Job No: <u>5208</u>	Date: 9/25/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE	EPA File No:	R6JZ010001000045
Work Type:	PDF File:	8000145.pdf
File Contents: 9 - 5208 - ETT-110 - BASF / HERCULES - CYCLOHEXANE	Bates Number:	HER 01142

Hercules Job No: <u>5247</u>	Date: 10/16/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE	EPA File No:	R6JZ010001000051
Work Type:	PDF File:	8000151.pdf
File Contents: 10 - 5247 - ETT-110 - BASF / HERCULES - CYCLOHEXANE	Bates Number:	HER 01286

Hercules Job No: <u>u/k</u>	Date: 11/30/1996	Documents: Job-Related Inspection Reports
Cargo/Chemicals:	EPA File No:	R6JZ010001000347
Work Type:	PDF File:	8000447.pdf
File Contents: ETT-110 - INCHCAPE TESTING SERVICES VISUAL TANK INSPECTION REPORT (30 - NOV - 96)	Bates Number:	HER 00000

Cargo/Chemicals: BUTANOL	EPA File No:	R6JZ010001000390
Work Type:	PDF File:	8000490.pdf
File Contents: ETT-110 - BASF / HERCULES - BARGE CLEANING REPORT: N - BUTANOL (INSPECTED 09 - FEB - 97)	Bates Number:	HER 00000

Customer: BASF continued

Cargo/Chemicals:

EPA File No: R6JZ010001000391

Work Type:

PDF File: 8000491.pdf

File Contents: *ETT-110 - INCHCAPE TESTING SERVICES VISUAL* Bates Number: HER 00000
TANK INSPECTION REPORT (09 - FEB - 97)

Vessel Name: ETT-112

<u>Hercules Job No:</u>	<u>4342</u>	<u>Date:</u>	<u>8/31/1994</u>	<u>Documents:</u>	<u>Job Files, includes Invoice</u>
Cargo/Chemicals:	CYCLOHEXANE	EPA File No:	R6JZ010001000199		
Work Type:	STRIP, BLOW	PDF File:	8000683.pdf		
File Contents:	4342 - ETT-112 - BASF / HERCULES - CYCLOHEXANE AND SPRAY PAINT (GREEN)		Bates Number:	HER 03744	

<u>Hercules Job No:</u>	<u>4372</u>	<u>Date:</u>	<u>10/10/1994</u>	<u>Documents:</u>	<u>Job Files</u>
Cargo/Chemicals:		EPA File No:	R6JZ010001000208		
Work Type:	MAINTENANCE	PDF File:	8000692.pdf		
File Contents:	4372 - ETT-112 - BASF / HERCULES - MAINTENANCE ON BALLAST		Bates Number:	HER 03873	

<u>Hercules Job No:</u>	<u>4435</u>	<u>Date:</u>	<u>11/28/1994</u>	<u>Documents:</u>	<u>Job Files, includes Invoice</u>
Cargo/Chemicals:	CYCLOHEXANE	EPA File No:	R6JZ010001000219		
Work Type:	STRIP, BLOW	PDF File:	8000703.pdf		
File Contents:	4435 - ETT-112 - BASF / HERCULES - CYCLOHEXANE		Bates Number:	HER 04022	

<u>Hercules Job No:</u>	<u>4439</u>	<u>Date:</u>	<u>12/6/1994</u>	<u>Documents:</u>	<u>Job Files, includes Invoice</u>
Cargo/Chemicals:	CYCLOHEXANE	EPA File No:	R6JZ010001000220		
Work Type:	STRIP, NITROGEN PURGE	PDF File:	8000704.pdf		
File Contents:	4439 - ETT-112 - BASF / HERCULES - CYCLOHEXANE		Bates Number:	HER 04048	

<u>Hercules Job No:</u>	<u>4476</u>	<u>Date:</u>	<u>1/9/1995</u>	<u>Documents:</u>	<u>Job Files, includes Invoice</u>
Cargo/Chemicals:	BUTANOL	EPA File No:	R6JZ010001000228		
Work Type:	STRIP, HOT WATER WASH	PDF File:	8000712.pdf		
File Contents:	4476 - ETT-112 - BASF / HERCULES - N - BUTANOL		Bates Number:	HER 04183	

<u>Hercules Job No:</u>	<u>4501</u>	<u>Date:</u>	<u>1/26/1995</u>	<u>Documents:</u>	<u>Job Files, includes Invoice</u>
Cargo/Chemicals:	CYCLOHEXANE	EPA File No:	R6JZ010001000124		
Work Type:	STRIP	PDF File:	8000651.pdf		
File Contents:	4501 - ETT-112 - BASF / HERCULES - CYCLOHEXANE		Bates Number:	HER 02640	

Customer: BASF continued

Hercules Job No: <u>4621</u>	Date: 4/11/1995	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE		EPA File No: R6JZ010001000306
Work Type:		PDF File: 8000787.pdf
File Contents: 4621 - ETT-112 - BASF / HERCULES - CYCLOHEXANE		Bates Number: HER 05791

Hercules Job No: <u>4910</u>	Date: 11/21/1995	Documents: Job Files, includes Invoice
Cargo/Chemicals:		EPA File No: R6JZ010001000342
Work Type: MAINTENANCE		PDF File: 8000816.pdf
File Contents: 4910 - ETT-112 - BASF / HERCULES - MAINTENANCE ON BALLAST		Bates Number: HER 06347

Hercules Job No: <u>5008</u>	Date: 4/30/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CAPROLACTAM		EPA File No: R6JZ010001000012
Work Type: STRIP, COLD WATER WASH		PDF File: 8000112.pdf
File Contents: 5008 - ETT-112 - BASF / HERCULES - E - CAPROLACTAM		Bates Number: HER 00320

Hercules Job No: <u>5017</u>	Date: 4/30/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CAPROLACTAM		EPA File No: R6JZ010001000015
Work Type: STRIP, COLD & HOT WATER WASH		PDF File: 8000115.pdf
File Contents: 5017 - ETT-112 - BASF / HERCULES - E - CAPROLACTAM		Bates Number: HER 00381

Hercules Job No: <u>5022</u>	Date: 4/30/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: BUTANOL		EPA File No: R6JZ010001000017
Work Type:		PDF File: 8000117.pdf
File Contents: 5022 - ETT-112 - BASF / HERCULES - N - BUTANOL		Bates Number: HER 00396

Hercules Job No: <u>5035</u>	Date: 4/30/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE		EPA File No: R6JZ010001000019
Work Type:		PDF File: 8000119.pdf
File Contents: 5035 - ETT-112 - BASF / HERCULES - CYCLOHEXANE		Bates Number: HER 00434

Hercules Job No: <u>5040</u>	Date: 5/31/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE		EPA File No: R6JZ010001000020
Work Type:		PDF File: 8000120.pdf
File Contents: 5040 - ETT-112 - BASF / HERCULES - CYCLOHEXANE		Bates Number: HER 00480

Customer: BASF continued

Hercules Job No: <u>5075</u>	Date: 6/14/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE		EPA File No: R6JZ010001000030
Work Type:		PDF File: 8000130.pdf
File Contents: 5075 - ETT-112 - BASF / HERCULES - CYCLOHEXANE		Bates Number: HER 00707

Hercules Job No: <u>5135</u>	Date: 7/31/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE		EPA File No: R6JZ010001000040
Work Type:		PDF File: 8000140.pdf
File Contents: 7 - 5135 - ETT-112 - BASF / HERCULES - CYCLOHEXANE		Bates Number: HER 00979

Hercules Job No: <u>5144</u>	Date: 8/7/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: BUTANOL		EPA File No: R6JZ010001000041
Work Type:		PDF File: 8000141.pdf
File Contents: 7 - 5144 - ETT-112 - BASF / HERCULES - N - BUTANOL		Bates Number: HER 01032

Hercules Job No: <u>5176</u>	Date: 9/25/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANOL		EPA File No: R6JZ010001000046
Work Type: EQPT SETUP, PUMP, MAINTENANCE		PDF File: 8000146.pdf
File Contents: 8 - 5176 - ETT-112 - BASF / HERCULES - ANOLON (CYCLOHEXANONE / CYCLOHEXANOL)		Bates Number: HER 01169

Hercules Job No: <u>5327</u>	Date: 12/10/1996	Documents: Job Files
Cargo/Chemicals: BUTANOL		EPA File No: R6JZ010001000353
Work Type:		PDF File: 8000453.pdf
File Contents: 5327 - ETT-112 - BASF / HERCULES - BARGE CLEANING REPORT: N - BUTANOL (INSPECTED 10 - DEC - 96)		Bates Number: HER 00000

Cargo/Chemicals: BUTANOL		EPA File No: R6JZ010001000383
Work Type:		PDF File: 8000483.pdf
File Contents: 5327 - ETT-112 - BASF / HERCULES - BARGE CLEANING REPORT: N - BUTANOL (INSPECTED 10 - DEC - 96)		Bates Number: HER 00000

Customer: BASF continued

Hercules Job No: <u>5359</u>	Date: 1/10/1997	Documents: Job Files
Cargo/Chemicals: CYCLOHEXANE		EPA File No: R6JZ010001000387
Work Type:		PDF File: 8000487.pdf
File Contents: 5359 - ETT-112 - BASF / HERCULES - BARGE CLEANING REPORT: N - BUTANOL (INSPECTED 10 - JAN - 97)		Bates Number: HER 00000

Hercules Job No: <u>5431</u>	Date: 3/6/1997	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE		EPA File No: R6JZ010001000376
Work Type:		PDF File: 8000476.pdf
File Contents: 3 - 5431 - ETT-112 - BASF / HERCULES - INVOICE #: 3797		Bates Number: HER 00000

Hercules Job No: <u>5488</u>	Date: 4/21/1997	Documents: Job Files, includes Invoice
Cargo/Chemicals:		EPA File No: R6JZ010001000365
Work Type: STRIP		PDF File: 8000465.pdf
File Contents: 4 - 5488 - ETT-112 - BASF / HERCULES - INVOICE #: 3853		Bates Number: HER 00000

Cargo/Chemicals: CYCLOHEXANE	EPA File No: R6JZ010001000411
Work Type:	PDF File: 8000511.pdf
File Contents: 4 - 5488 - ETT-112 - BARGE CLEANING REPORT: NORMAL BUTANOL (INSPECTED 21- APR - 97)	Bates Number: HER 00000

Hercules Job No: <u>5497</u>	Date: 4/27/1997	Documents: Job Files
Cargo/Chemicals:		EPA File No: R6JZ010001000368
Work Type:		PDF File: 8000468.pdf
File Contents: 4 - 5497 - ETT-112 - BASF / HERCULES - MARINE REPAIR ORDER: 4 - 5497		Bates Number: HER 00000

Hercules Job No: <u>u/k</u>	Date: 1/11/1996	Documents: Job-Related Inspection Reports
Cargo/Chemicals:		EPA File No: R6JZ010001000354
Work Type:		PDF File: 8000454.pdf
File Contents: ETT-112 - BASF - CERTIFICATE OF INSPECTION (EXPIRES 11 - JAN - 98)		Bates Number: HER 00000

Cargo/Chemicals:	EPA File No: R6JZ010001000384
Work Type:	PDF File: 8000484.pdf
File Contents: ETT-112 - INCHCAPE TESTING SERVICES VISUAL TANK INSPECTION REPORT (10 - DEC - 96)	Bates Number: HER 00000

Customer: BASF continued

Cargo/Chemicals:	EPA File No:	R6JZ010001000388
Work Type:	PDF File:	8000488.pdf
File Contents:	Bates Number:	HER 00000
<i>ETT-112 - INCHCAPE TESTING SERVICES VISUAL TANK INSPECTION REPORT (10 - JAN - 97)</i>		
Cargo/Chemicals: BUTANOL	EPA File No:	R6JZ010001000401
Work Type:	PDF File:	8000501.pdf
File Contents:	Bates Number:	HER 00000
<i>ETT-112 - BASF / HERCULES - BARGE CLEANING REPORT: N - BUTANOL (INSPECTED 06 - MAR - 97)</i>		
Cargo/Chemicals: BUTANOL	EPA File No:	R6JZ010001000375
Work Type:	PDF File:	8000475.pdf
File Contents:	Bates Number:	HER 00000
<i>ETT-112 - HAZARD COMMUNICATION STANDARD: N - BUTANOL</i>		
Cargo/Chemicals:	EPA File No:	R6JZ010001000402
Work Type:	PDF File:	8000502.pdf
File Contents:	Bates Number:	HER 00000
<i>ETT-112 - INCHCAPE TESTING SERVICES VISUAL TANK INSPECTION REPORT (06 - MAR - 97)</i>		
Cargo/Chemicals:	EPA File No:	R6JZ010001000412
Work Type:	PDF File:	8000512.pdf
File Contents:	Bates Number:	HER 00000
<i>ETT-112 - INCHCAPE TESTING SERVICES VISUAL TANK INSPECTION REPORT (21 - APR - 97)</i>		
Cargo/Chemicals:	EPA File No:	R6JZ010001000369
Work Type:	PDF File:	8000469.pdf
File Contents:	Bates Number:	HER 00000
<i>ETT-112 - BASF / HERCULES - MARINE REPAIR ORDER: (BLANK)</i>		
Cargo/Chemicals:	EPA File No:	R6JZ010001000418
Work Type:	PDF File:	8000518.pdf
File Contents:	Bates Number:	HER 00000
<i>ETT-112 - INCHCAPE TESTING SERVICES VISUAL TANK INSPECTION REPORT (02 - MAY - 97)</i>		
Cargo/Chemicals: CYCLOHEXANE	EPA File No:	R6JZ010001000417
Work Type:	PDF File:	8000517.pdf
File Contents:	Bates Number:	HER 00000
<i>ETT-112 - BASF / HERCULES - BARGE CLEANING REPORT: N - BUTANOL CYCLOHEXANE (INSPECTED 12 - MAY - 97)</i>		

Vessel Name: ETT-113

Hercules Job No: 4301

Date: 6/23/1994

Documents: Job Files, includes Invoice

Cargo/Chemicals: n/a

EPA File No: R6JZ010001000194

Work Type: MAINTENANCE

PDF File: 8000678.pdf

File Contents: 4301 - ETT-113 - BASF / HERCULES -
MAINTENANCE ON BALLAST

Bates Number: HER 03668

Hercules Job No: 4359

Date: 9/28/1994

Documents: Job Files, includes Invoice

Cargo/Chemicals:

EPA File No: R6JZ010001000203

Work Type: MAINTENANCE

PDF File: 8000687.pdf

File Contents: 4359 - ETT-113 - BASF / HERCULES -
MAINTENANCE ON BALLAST

Bates Number: HER 03824

Hercules Job No: 4375

Date: 10/10/1994

Documents: Job Files, includes Invoice

Cargo/Chemicals: CAPROLACTAM

EPA File No: R6JZ010001000211

Work Type: STRIP, HOT WATER WASH

PDF File: 8000695.pdf

File Contents: 4375 - ETT-113 - BASF / HERCULES - E -
CAPROLACTAM

Bates Number: HER 03897

Hercules Job No: 4522

Date: 2/13/1995

Documents: Job Files, includes Invoice

Cargo/Chemicals: CYCLOHEXANE

EPA File No: R6JZ010001000267

Work Type:

PDF File: 8000748.pdf

File Contents: 4522 - ETT-113 - BASF / HERCULES - CLEAN -
OUT (CYCLOHEXANE) LINES WITH NITROGEN

Bates Number: HER 05069

Hercules Job No: 4645

Date: 5/1/1995

Documents: Job Files, includes Invoice

Cargo/Chemicals: CAPROLACTAM

EPA File No: R6JZ010001000317

Work Type: STRIP, COLD WATER WASH

PDF File: 8000798.pdf

File Contents: 4645 - ETT-113 - BASF / HERCULES - E -
CAPROLACTAM

Bates Number: HER 06026

Hercules Job No: 4802

Date: 8/30/1995

Documents: Job Files, includes Invoice

Cargo/Chemicals: CYCLOHEXANE

EPA File No: R6JZ010001000326

Work Type:

PDF File: 8000426.pdf

File Contents: 4802 - ETT-113 - BASF / HERCULES -
CYCLOHEXANE

Bates Number: HER 06140

Customer: BASF continued

Hercules Job No: <u>4810</u>	Date: 8/31/1995	Documents: Job Files, includes Invoice
Cargo/Chemicals:		EPA File No: R6JZ010001000327
Work Type: MAINTENANCE		PDF File: 8000803.pdf
File Contents: 4810 - ETT-113 - BASF / HERCULES - MAINTENANCE ON PIPELINE		Bates Number: HER 06166

Hercules Job No: <u>4829</u>	Date: 9/14/1995	Documents: Job Files, includes Invoice
Cargo/Chemicals:		EPA File No: R6JZ010001000329
Work Type: MAINTENANCE		PDF File: 8000804.pdf
File Contents: 4829 - ETT-113 - BASF / HERCULES - MAINTENANCE ON BALLAST		Bates Number: HER 06199

Hercules Job No: <u>4831</u>	Date: 9/14/1995	Documents: Job Files, includes Invoice
Cargo/Chemicals:		EPA File No: R6JZ010001000330
Work Type: MAINTENANCE		PDF File: 8000805.pdf
File Contents: 4831 - ETT-113 - BASF / HERCULES - MAINTENANCE ON BALLAST		Bates Number: HER 06207

Hercules Job No: <u>4853</u>	Date: 9/30/1995	Documents: Job Files, includes Invoice
Cargo/Chemicals:		EPA File No: R6JZ010001000335
Work Type: MAINTENANCE		PDF File: 8000810.pdf
File Contents: 4853 - ETT-113 - BASF / HERCULES - MAINTENANCE ON BALLAST		Bates Number: HER 06260

Hercules Job No: <u>4862</u>	Date: 10/12/1995	Documents: Job Files, includes Invoice
Cargo/Chemicals:		EPA File No: R6JZ010001000336
Work Type: MAINTENANCE		PDF File: 8000811.pdf
File Contents: 4862 - ETT-113 - BASF / HERCULES - MAINTENANCE ON BALLAST		Bates Number: HER 06268

Hercules Job No: <u>4879</u>	Date: 10/31/1995	Documents: Job Files, includes Invoice
Cargo/Chemicals: BUTANOL		EPA File No: R6JZ010001000337
Work Type:		PDF File: 8000812.pdf
File Contents: 4879 - ETT-113 - BASF / HERCULES - N - BUTANOL		Bates Number: HER 06277

Hercules Job No: <u>4888</u>	Date: 10/25/1995	Documents: Job Files, includes Invoice
Cargo/Chemicals:		EPA File No: R6JZ010001000338
Work Type: MAINTENANCE		PDF File: 8000813.pdf
File Contents: 4888 - ETT-113 - BASF / HERCULES - MAINTENANCE ON BALLAST, CARGO TANKS		Bates Number: HER 06291

Customer: BASF continued

Hercules Job No: <u>4900</u>	Date: 11/9/1995	Documents: Job Files, includes Invoice
Cargo/Chemicals:		EPA File No: R6JZ010001000340
Work Type: MAINTENANCE		PDF File: 8000815.pdf
File Contents: 4900 - ETT-113 - BASF / HERCULES - MAINTENANCE ON BALLAST		Bates Number: HER 06316

Hercules Job No: <u>4921</u>	Date: 12/18/1995	Documents: Job Files, includes Invoice
Cargo/Chemicals: BUTANOL		EPA File No: R6JZ010001000343
Work Type: STRIP, HOT WATER WASH		PDF File: 8000443.pdf
File Contents: 4921 - ETT-113 - BASF / HERCULES - N - BUTANOL		Bates Number: HER 06355

Hercules Job No: <u>4940-1</u>	Date: 1/11/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE		EPA File No: R6JZ010001000002
Work Type: WELD		PDF File: 8000837.pdf
File Contents: 4940-1 - ETT-113 - BASF / HERCULES - CYCLOHEXANE		Bates Number: HER 00015

Hercules Job No: <u>4940-2</u>	Date: 1/18/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE		EPA File No: R6JZ010001000003
Work Type: REPAIR		PDF File: 8000838.pdf
File Contents: 4940-2 - ETT-113 - BASF / HERCULES - CYCLOHEXANE		Bates Number: HER 00029

Hercules Job No: <u>4952</u>	Date: 1/30/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE		EPA File No: R6JZ010001000006
Work Type:		PDF File: 8000841.pdf
File Contents: 4952 - ETT-113 - BASF / HERCULES - CYCLOHEXANE		Bates Number: HER 00063

Hercules Job No: <u>4995</u>	Date: 4/1/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: BUTANOL		EPA File No: R6JZ010001000011
Work Type:		PDF File: 8000111.pdf
File Contents: 4995 - ETT-113 - BASF / HERCULES - N - BUTANOL		Bates Number: HER 00303

Hercules Job No: <u>5035</u>	Date: 5/31/1996	Documents: Job Files
Cargo/Chemicals: CYCLOHEXANE		EPA File No: R6JZ010001000025
Work Type:		PDF File: 8000125.pdf
File Contents: 5053 - ETT-113 - BASF / HERCULES - CYCLOHEXANE		Bates Number: HER 00563

Customer: BASF continued

Hercules Job No: <u>5052</u>	Date: 5/31/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE		EPA File No: R6JZ010001000024
Work Type:		PDF File: 8000124.pdf
File Contents: 5052 - ETT-113 - BASF / HERCULES - CYCLOHEXANE		Bates Number: HER 00551

Hercules Job No: <u>5064</u>	Date: 6/14/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANOL		EPA File No: R6JZ010001000028
Work Type: STRIP, BLOW, HOT CHEMICAL WASH		PDF File: 8000128.pdf
File Contents: 5064 - ETT-113 - BASF / HERCULES - ANOLON (CYCLOHEXANONE / CYCLOHEXANOL)		Bates Number: HER 00666

Hercules Job No: <u>5082</u>	Date: 6/21/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE		EPA File No: R6JZ010001000031
Work Type:		PDF File: 8000131.pdf
File Contents: 5082 - ETT-113 - BASF / HERCULES - CYCLOHEXANE		Bates Number: HER 00727

Hercules Job No: <u>5085</u>	Date: 6/30/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: BUTANOL		EPA File No: R6JZ010001000033
Work Type:		PDF File: 8000133.pdf
File Contents: 5085 - ETT-113 - BASF / HERCULES - N - BUTANOL		Bates Number: HER 00798

Hercules Job No: <u>5104</u>	Date: 6/30/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE		EPA File No: R6JZ010001000055
Work Type:		PDF File: 8000155.pdf
File Contents: 5104 - ETT-113 - BASF / HERCULES - CYCLOHEXANE		Bates Number: HER 01450

Hercules Job No: <u>5113</u>	Date: 7/31/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: ETHYL HEXYL ALCOHOL		EPA File No: R6JZ010001000035
Work Type:		PDF File: 8000135.pdf
File Contents: 7 - 5113 - ETT-113 - BASF / HERCULES - 2 - ETHYL HEXYL ALCOHOL (1 - HEXA		Bates Number: HER 00843

Hercules Job No: <u>5120</u>	Date: 7/31/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: NITROGEN, BUTANOL PREPARATION		EPA File No: R6JZ010001000037
Work Type:		PDF File: 8000137.pdf
File Contents: 7 - 5120 - ETT-113 - BASF / HERCULES - NITROGEN PAD FOR N - BUTANOL PREPARATION		Bates Number: HER 00899

Customer: BASF continued

Hercules Job No: <u>5125</u>	Date: 7/31/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: BUTANOL		EPA File No: R6JZ010001000038
Work Type:		PDF File: 8000138.pdf
File Contents: 7 - 5125 - ETT-113 - BASF / HERCULES - N - BUTANOL		Bates Number: HER 00942

Hercules Job No: <u>5184</u>	Date: 9/25/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE		EPA File No: R6JZ010001000047
Work Type:		PDF File: 8000147.pdf
File Contents: 9 - 5184 - ETT-113 - BASF / HERCULES - CYCLOHEXANE		Bates Number: HER 01199

Hercules Job No: <u>5188</u>	Date: 9/25/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: BUTANOL		EPA File No: R6JZ010001000048
Work Type:		PDF File: 8000148.pdf
File Contents: 9 - 5188 - ETT-113 - BASF / HERCULES - N - BUTANOL		Bates Number: HER 01222

Hercules Job No: <u>5405</u>	Date: 2/22/1997	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE		EPA File No: R6JZ010001000373
Work Type:		PDF File: 8000473.pdf
File Contents: 2 - 5405 - ETT-113 - BASF / HERCULES - INVOICE #: 3771		Bates Number: HER 00000

Hercules Job No: <u>5494</u>	Date: 4/23/1997	Documents: Job Files
Cargo/Chemicals: CYCLOHEXANE		EPA File No: R6JZ010001000414
Work Type:		PDF File: 8000514.pdf
File Contents: 5494 - ETT-113 - BASF / HERCULES - BARGE CLEANING REPORT: N - BUTANOL (INSPECTED 23 - APR - 97)		Bates Number: HER 00000

Cargo/Chemicals:		EPA File No: R6JZ010001000366
Work Type: STRIP, BLOW		PDF File: 8000466.pdf
File Contents: 4 - 5494 - ETT-113 - BASF / HERCULES - MARINE REPAIR ORDER: 4 - 5494		Bates Number: HER 00000

Hercules Job No: <u>u/k</u>	Date: 2/22/1997	Documents: Job-Related Inspection Reports
Cargo/Chemicals: BUTANOL		EPA File No: R6JZ010001000372
Work Type:		PDF File: 8000472.pdf
File Contents: ETT-113 - HAZARD COMMUNICATION STANDARD: N - BUTANOL		Bates Number: HER 00000

Customer: BASF continued

Cargo/Chemicals: BUTANOL

EPA File No: R6JZ010001000397

Work Type:

PDF File: 8000497.pdf

File Contents: *ETT-113 - BASF / HERCULES - BARGE CLEANING
REPORT: N - BUTANOL (INSPECTED 26 - FEB - 97)*

Bates Number: HER 00000

Cargo/Chemicals:

EPA File No: R6JZ010001000398

Work Type:

PDF File: 8000498.pdf

File Contents: *ETT-113 - INCHCAPE TESTING SERVICES VISUAL
TANK INSPECTION REPORT (26 - FEB - 97)*

Bates Number: HER 00000

Cargo/Chemicals:

EPA File No: R6JZ010001000415

Work Type:

PDF File: 8000515.pdf

File Contents: *ETT-113 - INCHCAPE TESTING SERVICES VISUAL
TANK INSPECTION REPORT (23 - APR - 97)*

Bates Number: HER 00000

Vessel Name: ETT-114

Hercules Job No: 4299

Date: 6/23/1994

Documents: Job Files, includes Invoice

Cargo/Chemicals: n/a

EPA File No: R6JZ010001000193

Work Type: MAINTENANCE

PDF File: 8000677.pdf

File Contents: 4299 - ETT-114 - BASF / HERCULES -
MAINTENANCE ON BALLAST

Bates Number: HER 03660

Hercules Job No: 4304

Date: 6/28/1994

Documents: Job Files, includes Invoice

Cargo/Chemicals: n/a

EPA File No: R6JZ010001000195

Work Type: MAINTENANCE

PDF File: 8000679.pdf

File Contents: 4304 - ETT-114 - BASF / HERCULES -
MAINTENANCE ON BALLAST

Bates Number: HER 03677

Hercules Job No: 4334

Date: 8/22/1994

Documents: Job Files, includes Invoice

Cargo/Chemicals: BUTANOL

EPA File No: R6JZ010001000198

Work Type: STRIP, BLOW

PDF File: 8000682.pdf

File Contents: 4334 - ETT-114 - BASF / HERCULES - N - BUTANOL

Bates Number: HER 03726

Hercules Job No: 4343

Date: 8/31/1994

Documents: Job Files, includes Invoice

Cargo/Chemicals: CYCLOHEXANE

EPA File No: R6JZ010001000200

Work Type: STRIP, BLOW, NITROGEN PURGE

PDF File: 8000684.pdf

File Contents: 4343 - ETT-114 - BASF / HERCULES -
CYCLOHEXANE

Bates Number: HER 03777

Hercules Job No: 4356

Date: 9/22/1994

Documents: Job Files, includes Invoice

Cargo/Chemicals:

EPA File No: R6JZ010001000201

Work Type: MAINTENANCE

PDF File: 8000685.pdf

File Contents: 4356 - ETT-114 - BASF / HERCULES -
MAINTENANCE ON BALLAST

Bates Number: HER 03808

Hercules Job No: 4373

Date: 10/10/1994

Documents: Job Files, includes Invoice

Cargo/Chemicals: BUTANOL

EPA File No: R6JZ010001000209

Work Type: MAINTENANCE

PDF File: 8000693.pdf

File Contents: 4373 - ETT-114 - BASF / HERCULES -
MAINTENANCE ON WING VOIDS

Bates Number: HER 03881

Customer: BASF continued

Hercules Job No: <u>4385</u>	Date: 10/19/1994	Documents: Job Files, includes Invoice
Cargo/Chemicals: BUTANOL	EPA File No:	R6JZ010001000212
Work Type: STRIP, HOT WATER WASH	PDF File:	8000696.pdf
File Contents: 4385 - ETT-114 - BASF / HERCULES - N - BUTANOL	Bates Number:	HER 03913

Hercules Job No: <u>4392</u>	Date: 11/9/1994	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE	EPA File No:	R6JZ010001000213
Work Type: STRIP, BLOW, NITROGEN PURGE	PDF File:	8000697.pdf
File Contents: 4392 - ETT-114 - BASF / HERCULES - CYCLOHEXANE	Bates Number:	HER 03932

Hercules Job No: <u>4425</u>	Date: 11/11/1994	Documents: Job Files, includes Invoice
Cargo/Chemicals: BUTANOL	EPA File No:	R6JZ010001000216
Work Type: STRIP, HOT WATER WASH	PDF File:	8000700.pdf
File Contents: 4425 - ETT-114 - BASF / HERCULES - N - BUTANOL	Bates Number:	HER 03972

Hercules Job No: <u>4427</u>	Date: 11/18/1994	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE	EPA File No:	R6JZ010001000217
Work Type: STRIP, BLOW	PDF File:	8000701.pdf
File Contents: 4427 - ETT-114 - BASF / HERCULES - CYCLOHEXANE	Bates Number:	HER 03984

Hercules Job No: <u>4434</u>	Date: 11/28/1994	Documents: Job Files, includes Invoice
Cargo/Chemicals: BUTANOL	EPA File No:	R6JZ010001000218
Work Type: STRIP, HOT WATER WASH	PDF File:	8000702.pdf
File Contents: 4434 - ETT-114 - BASF / HERCULES - N - BUTANOL	Bates Number:	HER 04004

Hercules Job No: <u>4649</u>	Date: 5/8/1995	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE	EPA File No:	R6JZ010001000313
Work Type: STRIP, BLOW	PDF File:	8000794.pdf
File Contents: 4649 - ETT-114 - BASF / HERCULES - CYCLOHEXANE	Bates Number:	HER 05945

Hercules Job No: <u>4712</u>	Date: 6/30/1995	Documents: Job Files, includes Invoice
Cargo/Chemicals:	EPA File No:	R6JZ010001000321
Work Type: MAINTENANCE	PDF File:	8000801.pdf
File Contents: 4712 - ETT-114 - BASF / HERCULES - MAINTENANCE ON BALLAST	Bates Number:	HER 06077

Customer: BASF continued

Hercules Job No: <u>4722</u>	Date: 6/30/1995	Documents: Job Files, includes Invoice
Cargo/Chemicals: BUTANOL	EPA File No: R6JZ010001000322	
Work Type:	PDF File: 8000422.pdf	
File Contents: 4722 - ETT-114 - BASF / HERCULES - N - BUTANOL	Bates Number: HER 06084	

Hercules Job No: <u>4738</u>	Date: 6/30/1995	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE	EPA File No: R6JZ010001000324	
Work Type:	PDF File: 8000424.pdf	
File Contents: 4738 - ETT-114 - BASF / HERCULES - CYCLOHEXANE	Bates Number: HER 06112	

Hercules Job No: <u>4832</u>	Date: 9/14/1995	Documents: Job Files, includes Invoice
Cargo/Chemicals:	EPA File No: R6JZ010001000331	
Work Type: MAINTENANCE	PDF File: 8000806.pdf	
File Contents: 4832 - ETT-114 - BASF / HERCULES - MAINTENANCE ON BALLAST	Bates Number: HER 06215	

Hercules Job No: <u>4841</u>	Date: 9/22/1995	Documents: Job Files, includes Invoice
Cargo/Chemicals:	EPA File No: R6JZ010001000333	
Work Type: MAINTENANCE	PDF File: 8000808.pdf	
File Contents: 4841 - ETT-114 - BASF / HERCULES - MAINTENANCE ON BALLAST	Bates Number: HER 06233	

Hercules Job No: <u>4906A</u>	Date: 11/29/1995	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE	EPA File No: R6JZ010001000341	
Work Type:	PDF File: 8000441.pdf	
File Contents: 4906A - ETT-114 - BASF / HERCULES - CYCLOHEXANE	Bates Number: HER 06324	

Hercules Job No: <u>4913</u>	Date: 11/29/1995	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANOL	EPA File No: R6JZ010001000344	
Work Type: STRIP, BLOW, HOT CHEMICAL WASH	PDF File: 8000444.pdf	
File Contents: 4913 - ETT-114 - BASF / HERCULES - ANOLON (CYCLOHEXANONE / CYCLOHEXANOL)	Bates Number: HER 06369	

Hercules Job No: <u>4932</u>	Date: 1/31/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE	EPA File No: R6JZ010001000001	
Work Type: CLEANING	PDF File: 8000623.pdf	
File Contents: 4932 - ETT-114 - BASF / HERCULES - CYCLOHEXANE	Bates Number: HER 00001	

Customer: BASF continued

Hercules Job No: <u>4966</u>	Date: 3/7/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CAPROLACTAM		EPA File No: R6JZ010001000007
Work Type: STRIP, COLD WATER WASH		PDF File: 8000842.pdf
File Contents: 4966 - ETT-114 - BASF / HERCULES - E - CAPROLACTAM		Bates Number: HER 00117

Hercules Job No: <u>4970</u>	Date: 3/7/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: BUTANOL, N. HEXANE		EPA File No: R6JZ010001000008
Work Type: STRIP		PDF File: 8000108.pdf
File Contents: 4970 - ETT-114 - BASF / HERCULES - N - BUTANOL		Bates Number: HER 00174

Hercules Job No: <u>4972</u>	Date: 3/7/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE		EPA File No: R6JZ010001000009
Work Type:		PDF File: 8000109.pdf
File Contents: 4972 - ETT-114 - BASF / HERCULES - CYCLOHEXANE		Bates Number: HER 00189

Hercules Job No: <u>4990</u>	Date: 3/15/1996	Documents: Job Files
Cargo/Chemicals: BUTANOL		EPA File No: R6JZ010001000010
Work Type:		PDF File: 8000110.pdf
File Contents: 4990 - ETT-114 - BASF / HERCULES - N - BUTANOL		Bates Number: HER 00206

Hercules Job No: <u>5021</u>	Date: 4/30/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE		EPA File No: R6JZ010001000016
Work Type:		PDF File: 8000116.pdf
File Contents: 5021 - ETT-114 - BASF / HERCULES - CYCLOHEXANE		Bates Number: HER 00381

Hercules Job No: <u>5029</u>	Date: 4/30/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CAPROLACTAM		EPA File No: R6JZ010001000018
Work Type: STRIP, BLOW, HOT WATER WASH		PDF File: 8000843.pdf
File Contents: 5029 - ETT-114 - BASF / HERCULES - E - CAPROLACTAM		Bates Number: HER 00411

Hercules Job No: <u>5041</u>	Date: 5/31/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE		EPA File No: R6JZ010001000021
Work Type:		PDF File: 8000121.pdf
File Contents: 5041 - ETT-114 - BASF / HERCULES - CYCLOHEXANE		Bates Number: HER 00466

Customer: BASF continued

Hercules Job No: <u>5047</u>	Date: 5/31/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: BUTANOL		EPA File No: R6JZ010001000023
Work Type:		PDF File: 8000123.pdf
File Contents: 5047 - ETT-114 - BASF / HERCULES - N - BUTANOL		Bates Number: HER 00535

Hercules Job No: <u>5054</u>	Date: 5/31/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE		EPA File No: R6JZ010001000026
Work Type:		PDF File: 8000126.pdf
File Contents: 5054 - ETT-114 - BASF / HERCULES - CYCLOHEXANE		Bates Number: HER 00578

Hercules Job No: <u>5083</u>	Date: 6/14/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CAPROLACTAM		EPA File No: R6JZ010001000032
Work Type: STRIP, BLOW, COLD & HOT WATER WASH		PDF File: 8000624.pdf
File Contents: 5083 - ETT-114 - BASF / HERCULES - E - CAPROLACTAM		Bates Number: HER 00782

Hercules Job No: <u>5089</u>	Date: 6/30/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANOL		EPA File No: R6JZ010001000034
Work Type: STRIP, BLOW, HOT CHEMICAL WASH		PDF File: 8000134.pdf
File Contents: 5089 - ETT-114 - BASF / HERCULES - ANOLON (CYCLOHEXANONE / CYCLOHEXANOL)		Bates Number: HER 00822

Hercules Job No: <u>5109</u>	Date: 7/31/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CAPROLACTAM		EPA File No: R6JZ010001000056
Work Type: STRIP, BLOW, COLD & HOT WATER WASH		PDF File: 8000156.pdf
File Contents: 7 - 5109 - ETT-114 - BASF / HERCULES - E - CAPROLACTAM		Bates Number: HER 01468

Hercules Job No: <u>5163</u>	Date: 8/29/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE		EPA File No: R6JZ010001000043
Work Type:		PDF File: 8000143.pdf
File Contents: 8 - 5163 - ETT-114 - BASF / HERCULES - CYCLOHEXANE		Bates Number: HER 01072

Hercules Job No: <u>5171</u>	Date: 8/30/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: BUTANOL		EPA File No: R6JZ010001000044
Work Type:		PDF File: 8000144.pdf
File Contents: 8 - 5171 - ETT-114 - BASF / HERCULES - N - BUTANOL		Bates Number: HER 01127

Customer: BASF continued

Hercules Job No: <u>5245</u>	Date: 10/16/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE	EPA File No:	R6JZ010001000050
Work Type:	PDF File:	8000150.pdf
File Contents: 10 - 5245 - ETT-114 - BASF / HERCULES - CYCLOHEXANE	Bates Number:	HER 01259

Hercules Job No: <u>5430</u>	Date: 3/6/1997	Documents: Job Files, includes Invoice
Cargo/Chemicals:	EPA File No:	R6JZ010001000374
Work Type: STRIP, BLOW	PDF File:	8000474.pdf
File Contents: 3 - 5430 - ETT-114 - BASF / HERCULES - INVOICE #: 3796	Bates Number:	HER 00000

Cargo/Chemicals: CYCLOHEXANE	EPA File No:	R6JZ010001000406
Work Type:	PDF File:	8000506.pdf
File Contents: 5430 - ETT-114 - BASF / HERCULES - BARGE CLEANING REPORT: N - BUTANOL (INSPECTED 07 - MAR - 97)	Bates Number:	HER 00000

Hercules Job No: <u>u/k</u>	Date: 3/7/1997	Documents: Job-Related Inspection Reports
Cargo/Chemicals:	EPA File No:	R6JZ010001000407
Work Type:	PDF File:	8000507.pdf
File Contents: ETT-114 - INCHCAPE TESTING SERVICES VISUAL TANK INSPECTION REPORT (07 - MAR - 97)	Bates Number:	HER 00000

Vessel Name: ETT-115

Hercules Job No: 4358

Date: 9/22/1994

Documents: Job Files, includes Invoice

Cargo/Chemicals:

EPA File No: R6JZ010001000202

Work Type: MAINTENANCE

PDF File: 8000686.pdf

File Contents: 4358 - ETT-115 - BASF / HERCULES -
MAINTENANCE ON BALLAST

Bates Number: HER 03816

Hercules Job No: 4360

Date: 9/22/1994

Documents: Job Files, includes Invoice

Cargo/Chemicals:

EPA File No: R6JZ010001000204

Work Type: MAINTENANCE

PDF File: 8000688.pdf

File Contents: 4360 - ETT-115 - BASF / HERCULES -
MAINTENANCE ON BALLAST

Bates Number: HER 03841

Hercules Job No: 4365

Date: 9/28/1994

Documents: Job Files, includes Invoice

Cargo/Chemicals:

EPA File No: R6JZ010001000206

Work Type: MAINTENANCE

PDF File: 8000690.pdf

File Contents: 4365 - ETT-115 - BASF / HERCULES -
MAINTENANCE ON BALLAST

Bates Number: HER 03857

Hercules Job No: 4374

Date: 10/10/1994

Documents: Job Files, includes Invoice

Cargo/Chemicals:

EPA File No: R6JZ010001000210

Work Type: MAINTENANCE

PDF File: 8000694.pdf

File Contents: 4374 - ETT-115 - BASF / HERCULES -
MAINTENANCE ON BALLAST

Bates Number: HER 03889

Hercules Job No: 4399

Date: 10/25/1994

Documents: Job Files, includes Invoice

Cargo/Chemicals:

EPA File No: R6JZ010001000215

Work Type: MAINTENANCE

PDF File: 8000699.pdf

File Contents: 4399 - ETT-115 - BASF / HERCULES -
MAINTENANCE ON BALLAST

Bates Number: HER 03964

Hercules Job No: 4794

Date: 8/31/1995

Documents: Job Files, includes Invoice

Cargo/Chemicals:

EPA File No: R6JZ010001000325

Work Type: MAINTENANCE

PDF File: 8000425.pdf

File Contents: 4794 - ETT-115 - BASF / HERCULES -
MAINTENANCE ON BALLAST

Bates Number: HER 06133

Customer: BASF continued

Hercules Job No: <u>4833</u>	Date: 9/14/1995	Documents: Job Files, includes Invoice
Cargo/Chemicals:		EPA File No: R6JZ010001000332
Work Type: MAINTENANCE		PDF File: 8000807.pdf
File Contents: 4833 - ETT-115 - BASF / HERCULES - MAINTENANCE ON BALLAST		Bates Number: HER 06224

Hercules Job No: <u>4946</u>	Date: 1/29/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: BUTANOL		EPA File No: R6JZ010001000004
Work Type:		PDF File: 8000839.pdf
File Contents: 4946 - ETT-115 - BASF / HERCULES - N - BUTANOL		Bates Number: HER 00041

Hercules Job No: <u>4950</u>	Date: 1/25/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals:		EPA File No: R6JZ010001000005
Work Type: MAINTENANCE		PDF File: 8000840.pdf
File Contents: 4950 - ETT-115 - BASF / HERCULES - MAINTENANCE ON BALLAST		Bates Number: HER 00055

Hercules Job No: <u>5057</u>	Date: 5/31/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE		EPA File No: R6JZ010001000027
Work Type:		PDF File: 8000127.pdf
File Contents: 5057 - ETT-115 - BASF / HERCULES - CYCLOHEXANE		Bates Number: HER 00603

Hercules Job No: <u>5070</u>	Date: 6/14/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: BUTANOL		EPA File No: R6JZ010001000029
Work Type:		PDF File: 8000129.pdf
File Contents: 5070 - ETT-115 - BASF / HERCULES - N - BUTANOL		Bates Number: HER 00686

Hercules Job No: <u>5119</u>	Date: 7/31/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CYCLOHEXANE		EPA File No: R6JZ010001000036
Work Type:		PDF File: 8000136.pdf
File Contents: 7 - 5119 - ETT-115 - BASF / HERCULES - CYCLOHEXANE		Bates Number: HER 00875

Hercules Job No: <u>5130</u>	Date: 7/31/1996	Documents: Job Files, includes Invoice
Cargo/Chemicals: CAPROLACTAM		EPA File No: R6JZ010001000039
Work Type: STRIP, BLOW, COLD & HOT WATER WASH		PDF File: 8000139.pdf
File Contents: 7 - 5130 - ETT-115 - BASF / HERCULES - E - CAPROLACTAM		Bates Number: HER 00959

Customer: BASF continued

<u>Hercules Job No:</u>	<u>5146</u>	Date:	8/7/1996	Documents:	Job Files, includes Invoice
Cargo/Chemicals:	CAPROLACTAM	EPA File No:	R6JZ010001000042		
Work Type:	STRIP, BLOW, COLD WATER WASH	PDF File:	8000142.pdf		
File Contents:	7 - 5146 - ETT-115 - BASF / HERCULES - E - CAPROLACTAM	Bates Number:	HER 01053		
<u>Hercules Job No:</u>	<u>5240</u>	Date:	10/16/1996	Documents:	Job Files, includes Invoice
Cargo/Chemicals:	CYCLOHEXANE	EPA File No:	R6JZ010001000049		
Work Type:		PDF File:	8000149.pdf		
File Contents:	10 - 5240 - ETT-115 - BASF / HERCULES - CYCLOHEXANE; Invoice# 3604, 10/16/96, Job # 5240.	Bates Number:	HER 01238		
<u>Hercules Job No:</u>	<u>5262</u>	Date:	10/29/1996	Documents:	Job Files, includes Invoice
Cargo/Chemicals:		EPA File No:	R6JZ010001000186		
Work Type:		PDF File:	8000286.pdf		
File Contents:	10 - 5262 - ETT-115 - BASF / HERCULES - BALLAST WING TANK AND BOW RAK NO CHEMICAL IDENTIFIED.	Bates Number:	HER 03545		
<u>Hercules Job No:</u>	<u>5265</u>	Date:	10/29/1996	Documents:	Job Files
Cargo/Chemicals:	CYCLOHEXANE	EPA File No:	R6JZ010001000188		
Work Type:		PDF File:	8000288.pdf		
File Contents:	10 - 5265 - ETT-115 - BASF / HERCULES - CYCLOHEXANE	Bates Number:	HER 03565		
<u>Hercules Job No:</u>	<u>5334</u>	Date:	12/17/1996	Documents:	Job Files
Cargo/Chemicals:	CYCLOHEXANE	EPA File No:	R6JZ010001000357		
Work Type:		PDF File:	8000457.pdf		
File Contents:	5334 - ETT-115 - BASF - BARGE CLEANING REPORT: CYCLOHEXANE (INSPECTED 17 - DEC - 96)	Bates Number:	HER 00000		
<u>Hercules Job No:</u>	<u>5402</u>	Date:	2/18/1997	Documents:	Job Files, includes Invoice
Cargo/Chemicals:		EPA File No:	R6JZ010001000371		
Work Type:	STRIP, BLOW	PDF File:	8000471.pdf		
File Contents:	2 - 5402 - ETT-115 - BASF / HERCULES - INVOICE #: 3768	Bates Number:	HER 00000		

Customer: BASF continued

Cargo/Chemicals: BUTANOL	EPA File No: R6JZ010001000394
Work Type:	PDF File: 8000494.pdf
File Contents: 5402 - ETT-115 - BASF / HERCULES - BARGE CLEANING REPORT: N - BUTANOL (INSPECTED 18 - FEB - 97)	Bates Number: HER 00000
Cargo/Chemicals: CYCLOHEXANE	EPA File No: R6JZ010001000504
Work Type:	PDF File: 8000604.pdf
File Contents: HERCULES RECORD FOR ETT-115, JOB 5402	Bates Number: HER 00000
Cargo/Chemicals: BUTANOL	EPA File No: R6JZ010001000370
Work Type:	PDF File: 8000470.pdf
File Contents: 5402 - ETT-115 - BASF / HERCULES - BARGE CLEANING REPORT: N - BUTANOL (INSPECTED 18 - FEB - 97)	Bates Number: HER 00000
Hercules Job No: u/k Date: 12/17/1996 Documents: Job-Related Inspection Reports	
Cargo/Chemicals:	EPA File No: R6JZ010001000358
Work Type:	PDF File: 8000458.pdf
File Contents: ETT-115 - INCHCAPE TESTING SERVICES VISUAL TANK INSPECTION REPORT (17 - DEC - 96)	Bates Number: HER 00000
Cargo/Chemicals:	EPA File No: R6JZ010001000395
Work Type:	PDF File: 8000495.pdf
File Contents: ETT-115 - INCHCAPE TESTING SERVICES VISUAL TANK INSPECTION REPORT (18 - FEB - 97)	Bates Number: HER 00000
Cargo/Chemicals:	EPA File No: R6JZ010001000360
Work Type:	PDF File: 8000460.pdf
File Contents: ETT-115 - BASF - CERTIFICATE OF INSPECTION (EXPIRES 06 - MAR - 99)	Bates Number: HER 00000

Vessel Name: ETT-119

Hercules Job No: 4625 Date: 4/10/1995 Documents: Job Files, includes Invoice	
Cargo/Chemicals: CYCLOHEXANE	EPA File No: R6JZ010001000309
Work Type:	PDF File: 8000790.pdf
File Contents: 4625 - ETT-119 - BASF / HERCULES - CYCLOHEXANE	Bates Number: HER 05860

5

PRP Name: Blessey Marine Services

Blessey Marine
P.O. Box 23732
Harahan, Louisiana 70183

Blessey Marine Services, Inc.
1515 River Oaks Rd. East
Harahan, Louisiana 70123
(504) 734-1156
www.blessey.com

TYPE OF BUSINESS: Inland Tank and Barge Towing Vessels

KNOWN PERIOD OF SITE NEXUS: 1995 - 1996

June 16, 1995

Description: Barge services to Barge WEB-122 to include:
Strip all free product; blow cargo pipeline and stripping
system; vacuum blow dry cargo tanks. [Bates No. HER
06105]

Hercules Job ID: 4725

Cargo/Material: Toluene

Hazardous Substance: Yes

EPA Document No. R6JZ010001000323; 8000802.pdf

1996

Description: Blessey identified as customer of Hercules
Marine in budget document prepared by Hercules.
Document estimates five barges serviced.

Hercules Job ID: N/A

Cargo/Material: Unknown

Hazardous Substance: Indeterminate

EPA Document No. 8000622.pdf

6

PRP Name: Canal Barge Company, Inc.

Canal Barge Company, Inc.
835 Union Street
New Orleans, Louisiana 70112-1469
(504) 581-2424
www.canalbarge.com

TYPE OF BUSINESS: Marine Transportation Company

KNOWN PERIOD OF SITE NEXUS: 1996

1996

Description: Barge Services – Canal identified as customer of Hercules Marine in budget document prepared by Hercules. Document indicates ten barges serviced.

Hercules Job ID: N/A

Cargo/Material: Unknown

Hazardous Substance: Indeterminate

EPA Document No. 8000622.pdf

7

PRP Name: Conoco, Inc.

Conoco, Inc.

www.conocophillips.com

TYPE OF BUSINESS: Petrochemical

KNOWN PERIOD OF SITE NEXUS: 1989 – 1990; 1995 - 1998

1989 - 1990

Description: Report titled “Comparison Reporting of Vendor Revenue Yearly Basis” shows “Dupont/Conoco” revenues to Gulfco of \$79,423 in 1989 and \$33,870 in 1990.

Hercules Job ID: N/A

Cargo/Material: Unknown

Hazardous Substance: Indeterminate

EPA Document No. R6JZ010001000177 (1992 Marine Forecast); Bates No. HER 03455; 8000277.pdf

1995 - 1998

Description: Barge Services – Exhibit D to Hercules Marine Service Corporation (“HMSC”) Business Plan for 1994 – 1995 “lists the number of barges operated by potential customers in HMSC’s customer base along with management’s expected market share for each.”

Exhibit C to the same document shows estimated revenues from potential HMSC customers. Estimated annual revenue from Conoco is \$16,500.

Hercules Job ID: N/A

Cargo/Material: Unknown

Hazardous Substance: Indeterminate

EPA Document No. 8000622.pdf (1995 Business Plan)

8

PRP Name: DuPont

DuPont
Freeport, Texas
www2.dupont.com/

TYPE OF BUSINESS: Chemical Products

KNOWN PERIOD OF SITE NEXUS: 1989 - 1998

1989 - 1990

Description: Report titled "Comparison Reporting of Vendor Revenue Yearly Basis" shows "Dupont/Conoco" revenues to Gulfco of \$79,423 in 1989 and \$33,870 in 1990.

Hercules Job ID: N/A

Cargo/Material: Unknown

Hazardous Substance: Indeterminate

EPA Document No. R6JZ010001000177 (1992 Marine Forecast); **Bates No.** HER 03455

1995 - 1998

Description: Barge Services – Exhibit C to Hercules Marine Services Corporation ("HMSC") Business Plan for 1994 – 1995 shows estimated revenue from potential HMSC customers. Estimated annual revenue from E.I. DuPont for Barge Mechanical/Repair is \$16,500.

Hercules Job ID: N/A

Cargo/Material: Unknown

Hazardous Substance: Indeterminate

EPA Document No. 8000622.pdf (1995 Business Plan)

1993

Description: Letter from Thomas J. Seward, President, HMSC to Ann W. Richards, Governor of Texas, November

24, 1993. “ Our customers are the nearby major chemical companies, such as Dow and Dupont.”

Hercules Job ID: N/A

Cargo/Material: Unknown

Hazardous Substance: Indeterminate

EPA Doc No. R6J010001000159; [Bates No. HER 03204 – 03205]

October 20, 1993

Description: “On Site Inspections and/or Audits of HMSC Barge Cleaning and Repair Facility Since Acquisition by Hercules.” This document lists entities who conducted on-site investigations of the HMSC site. List indicates DuPont found “No deficiency.”

EPA Doc No. [Bates No. HER 03155 – 03156]

1996

Description: Barge Services – E.I. Dupont identified as a customer of Hercules Marine in budget document prepared by Hercules. Document indicates eight barges serviced.

Hercules Job ID: N/A

Cargo/Material: Unknown

Hazardous Substance: Indeterminate

EPA Document No. 8000622.pdf

9

PRP Name: Duvall Company

Duvall Company
c/o Duvall Marine Salvage, Inc.
118 Parker Street
Mobile, Alabama 36604

P.O. Box 1645
Mobile, Alabama 36633
(251) 753-9644

TYPE OF BUSINESS: Water Transportation Services

KNOWN PERIOD OF SITE NEXUS: Indeterminate

Date: Indeterminate Deposition Testimony of Gloria Millsap, 2/11/1998,
Hercules Marine Services Corp. v. Bob Casales, pg. 69.,
"... The name is on the tip of my tongue. Duval, I believe
Duval Towing. No. Duval Company. We stripped the
bilge."

Hercules Job ID: Unknown

Cargo/Material: Bilge

Hazardous Substance: Indeterminate

10

PRP Name: Hall Houston

Hall Houston Oil Co.
c/o Energy Partners, Ltd.
700 Louisiana, Suite 2100
Houston, Texas 77002
(713) 228 0711

TYPE OF BUSINESS: Exploration and Production Company

KNOWN PERIOD OF SITE NEXUS: March – April 1996

March – April 1996 **Description: Dock Services – HMSC provided crane and personnel for work performed at HMSC Freeport, Texas facility.**

Hercules Job ID: 5007

Cargo/Material: Indeterminate

Hazardous Substance: Indeterminate

EPA Document No. 8000672.pdf

11

PRP Name: Ingram Barge Lines
Ingram Barge Company

Ingram Barge Company
4400 Harding Road
Nashville, TN 37205-2290
(615) 298-8200
www.ingrambarge.com

TYPE OF BUSINESS: Marine Transportation

KNOWN PERIOD OF SITE NEXUS: 1995 - 1998

Date: 1996

Barge Services: Ingram Barge Lines identified as customer of Hercules Marine in budget document prepared by Hercules. Document indicates twenty barges serviced.

Hercules Job ID: Unknown

Cargo/Material: Unknown

Hazardous Substance: Indeterminate

EPA Document No.: 8000622.pdf

1995 – 1998

Barge Services: Exhibit D to Hercules Marine Services Corporation (“HMSC”) Business Plan for 1994 – 1995 “lists the number of barges operated by potential customers is HMSC’s customer base along with management’s expected market share for each.”

Exhibit C shows estimated revenues for potential HMSC customers. Estimated revenue from Ingram is \$63,000 per year for barge cleaning and \$16,500 annually for mechanical repairs.

Hercules Job ID: Unknown

Cargo/Material: Unknown

Hazardous Substance: Indeterminate

EPA Document No.: 8000622.pdf (1995 Business Plan)

12

PRP Name: J & S Contractors

J & S Contractors
FM 2918 P.O. Drawer 4003
Brazoria, Texas 77422

(979) 964-3250

TYPE OF BUSINESS: Marine Services

KNOWN PERIOD OF SITE NEXUS: September 1996

September 6, 1996 Description: Vessel Services – Sand blast and paint vessel
River Lady (towing vessel). Application of zinc paint.

Hercules Job ID: 9-5181

Cargo/Material: Paint waste/Zinc

Hazardous Substance: Yes

EPA Document No. 8000671.pdf

13

Gulfco Marine Maintenance
Superfund Site
Freeport, Brazoria County, Texas

Site Nexus Report

Kirby Corporation
and related Entities

November 5, 2009

Prepared by CR Consulting, Inc.

INTRODUCTION

The Gulfco Marine Maintenance Superfund Site ("Site") was placed on the National Priorities List in May 2003. Following the final listing, the Environmental Protection Agency, Region 6, ("EPA") issued Information Requests under U.S.C. § 9604(e)(2) to various entities. The following related entities were issued information requests on November 20, 2003: TPT Transportation, Dixie Carriers, Inc., Dixie Linehaul, Kirby Inland Marine, Inc. of Louisiana, and Kirby Corporation (herein collectively referred to as "Kirby"). Kirby's initial responses to EPA's information request denied any knowledge, use or other relationship to the Site based on an internal inquiry limited to the time frame 1970 – 1979 as defined by EPA as the period which the facility operated in its November 20, 2003 information request. (See, Information Responses dated November 21, 2003, December 1, 2003.) In a January 6, 2004 letter to EPA, Kirby indicated that "one or more of our subsidiaries did utilize Hercules for barge cleaning services between 1994 and 1998." Kirby provided an audit report for the Gulfco Site (a/k/a Hercules Marine). Kirby indicated it was trying to locate copies of invoices which may indicate what services were performed at the Site on Kirby vessels comprised primarily of tank barges. No additional records or correspondence provided by Kirby in response to EPA's request were identified during the course of preparation of this Site Nexus Report.

Since the last known correspondence from Kirby, EPA now knows the Site operated until at least 1998.¹ In addition, EPA has acquired multiple documents from other sources indicating Kirby was the primary customer of the Site during the mid-1990's. In response to multiple Freedom of Information Requests, EPA provided Site related documents to Thompson & Knight. This Site Nexus Report has been prepared based in part on the documents released by EPA. The report demonstrates that Kirby had extensive involvement at the Site. Specifically, the Site Nexus Report summarizes information based on documents reviewed showing the arrangement of disposal of waste, including hazardous substances, by Kirby through the servicing of Kirby-owned barges at the facility.

KIRBY ENTITIES UTILIZING GULFCO MARINE MAINTENANCE

Multiple barge companies utilized the Gulfco Marine Site for various services including maintenance, stripping of cargo holds and other services. Many of these companies were or later became entities of Kirby. Following is a summary of these companies. This list is provided only for those companies for which barge services were provided as indicated in the limited documents provided by EPA. This summary is not intended to be a complete list of all Kirby-companies which may have used the Site.²

Dixie Carriers Inc. (Dixie). Dixie was acquired by Kirby in 1969.

¹ See, e.g., Site Status Update, March 9, 2009.

² For a list of entities acquired by Kirby see a summary of its corporate history at http://www.kirbycorp.com/1_corp/history.cfm.

Kirby Exploration Company. Dixie's stock was transferred to this company in 1974 as part of a reorganization and liquidation of prior companies. Marine services were operated under the name Dixie Carriers.

Kirby Corporation. Kirby Exploration Company changed its name in 1990.

Scott Chotin, Inc. Kirby acquired Scott Chotin in 1992.

TPT, Division of Ashland Oil Company. Kirby acquired TPT in 1993.

Hollywood Marine, Inc. Hollywood Marine merged into Kirby in 1999.

IDENTIFICATION OF KIRBY AS BARGE OWNER

The review of available Site records did not indicate "Kirby" as the Gulfco customer. Instead, the Kirby Gulfco customers were related or acquired entities. These entities were identified based on the corporate acquisition history as provided by Kirby Corporation and confirmed using the United States Coast Guard Vessel (USCG) registration database.³ *(Note: The USCG database refers to the generalized term "vessels" which includes barges. The term barge and vessel are used interchangeably in this Nexus Report.)* In some limited instances, barge or vessel prefixes identified to be a Kirby entity were assumed to apply to other vessels with the same prefix for purposes of this Site Nexus Report. For example, three vessels with the prefix of "SC" were documented by the USCG to be Kirby vessels. This prefix is believed to represent Scott Chotin, Inc., a Kirby-acquired barge company. Based on this information, other SC – vessels were designated as Kirby owned. Copies of identified USGC Documentation Reports for Kirby-owned vessels using the Site showing vessel names and Kirby ownership are found as Attachment 1. The following table is a list of identified Kirby vessels, including barges, utilizing the Site. The USCG Documentation Reports indicate the "Previous Vessel Names" which match the vessel names obtained from Gulfco records.

³ See, <http://www.st.nmfs.noaa.gov/st1/CoastGuard/VesselByName.html>

Kirby Vessels Identified and Serviced at Gulfco Marine (June 1994 - May 1997)
Based on Review of Hercules Operational Documents

	Vessel Name (at time of service based on Gulfco Records)	Current Vessel Name (2009)	USCG Document No.	Notes
1	DC-305	KIRBY 29002	623298	
2	DC-306	KIRBY 29303	624467	
3	DC-308	KIRBY 29305	626694	
4	DC-310	KIRBY 29004	628113	
5	DC-342	KIRBY 10049	1052322	
6	DC-345	KIRBY 10018	1052325	
7	DC-355	KIRBY 10022	618802	
8	DC-357	KIRBY 10413	621171	
9	DC-358	KIRBY 10415	621172	
10	DC-359	KIRBY 10416	623559	
11	DC-360	KIRBY 10417	624468	
12	DC-361	KIRBY 10023	625982	
13	DC-362	KIRBY 10024	626910	
14	DC-370	KIRBY 10025	609217	
15	DC-372	KIRBY 10027	609219	
16	DC-374	KIRBY 10029	609221	
17	DC-398	KIRBY 7501	625974	
18	DML-1121	KIRBY 11503	962028	
19	DXE-1106	Unknown	Unknown	DXE prefix is identified as a Kirby owned vessel. Assume to be Dixie Carriers, acquired by Kirby.
20	DXE-1110	Unknown	Unknown	DXE prefix is identified as a Kirby owned vessel. Assume to be Dixie Carriers, acquired by Kirby.
21	DXE-1115	Unknown	Unknown	DXE prefix is identified as a Kirby owned vessel. Assume to be Dixie Carriers, acquired by Kirby.
22	DXE-1116	KIRBY 11500	962023	
23	DXE-1118	KIRBY 11509	962025	
24	DXE-1123	KIRBY 11505	962030	
25	DXE-233	KIRBY 23301	536268	
26	DXE-237	KIRBY 23000 B	536743	
27	DXE-2805	KIRBY 28005 B	600338	
28	DXE-2907	KIRBY 28306	972841	
29	ETT-110	KIRBY 10307	518613	
30	ETT-112	Unknown	Unknown	Four of six vessels with ETT prefix are Kirby vessels. Remaining two are not indicated. Assumed to be a Kirby Vessel.
31	ETT-113	KIRBY 10032	530993	
32	ETT-114	KIRBY 10033	530994	
33	ETT-115	KIRBY 10034	530995	
34	ETT-119			Four of six vessels with ETT prefix are Kirby vessels. Remaining two are not indicated. Assumed to be a Kirby Vessel
35	HOLLY-1036	Unknown	Unknown	Hollywood Acquisition; Prefix matches other Hollywood vessels now registered to Kirby.
36	HOLLY-2524	KIRBY 24703	1027117	
37	M/V BLUEFISH & M/V CITY OF FREEPORT	BLUEFISH	Unkown	See M/V Bluefish and M/V City of Freeport Registration.
38	M/V CITY OF FREEPORT	CITY OF FREEPORT	629736	
39	RIO-400	KIRBY 11003	641589	
40	RIO-500	KIRBY 11004	642645	
41	SC-150	Unknown	Unknown	Assumed to be Scott Chotin, Inc. vessel based on prefix-SC. Scott Chotin, Inc. acquired by Kirby in

				1992.
42	SC-1902	KIRBY 10530	626998	
43	SC-1903	Unknown	Unknown	Assumed to be Scott Chotin, Inc. vessel based on prefix-SC. Scott Chotin, Inc. acquired by Kirby in 1992.
44	SC-1904	Unknown	Unknown	Assumed to be Scott Chotin, Inc. vessel based on prefix-SC. Scott Chotin, Inc. acquired by Kirby in 1992.
45	SC-1905	KIRBY 10330	569781	
46	SC-1907	Unknown	Unknown	Assumed to be Scott Chotin, Inc. vessel based on prefix-SC. Scott Chotin, Inc. acquired by Kirby in 1992.
47	SC-1908	KIRBY 10344	569784	
48	SC-1909	Unknown	Unknown	Assumed to be Scott Chotin, Inc. vessel based on prefix-SC. Scott Chotin, Inc. acquired by Kirby in 1992.
49	SC-312	Unknown	Unknown	Assumed to be Scott Chotin, Inc. vessel based on prefix-SC. Scott Chotin, Inc. acquired by Kirby in 1992.
50	SC-700, SC-701, SC-703, SC-704	Unknown	Unknown	Assumed to be Scott Chotin, Inc. vessel based on prefix-SC. Scott Chotin, Inc. acquired by Kirby in 1992.
51	TPT-110	Unknown	Unknown	Assumed to be TPT, Division of Ashland Oil Company. TPT acquired by Kirby in 1993.
52	TPT-120	Unknown	Unknown	Assumed to be TPT, Division of Ashland Oil Company. TPT acquired by Kirby in 1993.
53	TPT-121	Unknown	Unknown	Assumed to be TPT, Division of Ashland Oil Company. TPT acquired by Kirby in 1993.
54	TPT-123	Unknown	Unknown	Assumed to be TPT, Division of Ashland Oil Company. TPT acquired by Kirby in 1993.
55	TPT-321	Unknown	Unknown	Assumed to be TPT, Division of Ashland Oil Company. TPT acquired by Kirby in 1993.
56	TPT-351	Unknown	Unknown	Assumed to be TPT, Division of Ashland Oil Company. TPT acquired by Kirby in 1993.
57	TPT-372	Unknown	Unknown	Assumed to be TPT, Division of Ashland Oil Company. TPT acquired by Kirby in 1993.
58	TPT-384	Unknown	Unknown	Assumed to be TPT, Division of Ashland Oil Company. TPT acquired by Kirby in 1993.
59	TPT-50	Unknown	Unknown	Assumed to be TPT, Division of Ashland Oil Company. TPT acquired by Kirby in 1993.
60	TPT-901	Unknown	Unknown	Assumed to be TPT, Division of Ashland Oil Company. TPT acquired by Kirby in 1993.
61	TPT-924	Unknown	Unknown	Assumed to be TPT, Division of Ashland Oil Company. TPT acquired by Kirby in 1993.
62	TPT-932	Unknown	Unknown	Assumed to be TPT, Division of Ashland Oil Company. TPT acquired by Kirby in 1993.
63	TPT-933	Unknown	Unknown	Assumed to be TPT, Division of Ashland Oil Company. TPT acquired by Kirby in 1993.

SUMMARY OF SUBSTANCES TREATED BY GULFCO

The following list summarizes Kirby barge cargos and materials generated or used when Kirby barges were serviced at the Gulfco Site based on documents reviewed. Also indicated are those substances found at the Site during sampling and investigation activities. (See, e.g., Appendix A of the Draft Nature and Extent Data Report dated March 2, 2009.)

Compound	Detected in at least one Site Sample
ACETONE	YES
ANTI-FREEZE	NA (Not Analyzed)
BENZENE	YES
BTX (TOLUENE/BENZENE MIX)	YES
BUTANOL	YES
BUTANOL, N. HEXANE	NA
CAPROLACTAM	YES
CARBON TETRACHLORIDE	YES
CAUSTIC SODA SOLUTION 50% (SODIUM HYDROXIDE, SODA LYE, SODIUM HYDRATE)	NA
CHLOROFORM	YES
CUMENE	YES
CYCLOHEXANE	YES
CYCLOHEXANOL (Anolon-Cyclohanone/Cyclohexanol mix)	NA
CYCLOPENTADIENE	NA
DIESEL FUEL	NA
DOWANOL (R) PM GLYCOL ETHER	NA
ENGINE OIL	NA
ETHANOL	NA
ETHYL BENZENE	YES
ETHYL HEXYL ALCOHOL	NA
ETHYLENE DICHLORIDE	YES
FILL NITROGEN BOTTLE	NA
GLYCOL ETHINOL	NA
HYDRAULIC OIL	NA
METHANOL	NA
METHANOL, ACETONE	NA
METHYLENE CHLORIDE	YES
MTB	Indeterminate
NITROGEN	NA
NITROGEN, BUTANOL PREPARATION	NA
OIL	NA
PERCHLOROETHYLENE	YES
PIPERYLENE CONCENTRATE	NA
PROPANOL	NA
PROPYLENE, PIPERLENE	NA
PYROLYSIS GASOLINE	NA
RESIN OIL	NA
SODIUM HYDROXIDE	NA
STYRENE	YES
STYRENE MONOMER	NA
TOULENE / BENZENE MIXTURE (BTX)	YES
TRICHLOROETHYLEN 95%	Indeterminate
TRICHLOROETHYLENE	YES
XYLENE	YES

SUMMARY OF KIRBY BARGES SERVICED AT GULFCO

A summary of the services performed for each Kirby related barge has been prepared. This summary is found as Attachment 2. The report reflects data obtained from documents related to each job. A job reflects a single visit to the Site by the barge for cleaning and or maintenance.

CONCLUSION

As demonstrated by this Site Nexus Report, Kirby was the single largest user of the Gulfco Marine Site during the documented period. Underlying Kirby customers whose cargos were hauled by Kirby are generally not indicated in available records. EPA must require further information from Kirby regarding its involvement to more accurately characterize and identify additional PRPs at the Site. Based on Kirby's role in Site activities it appears to be the best source of additional PRP information.

Attachment 1

Summary of United States Coast Guard Vessel Documentation
For Kirby Vessels Identified at Gulfco Marine

Coast Guard Vessel Documentation

Data found in current database.

Vessel Name:	KIRBY 29002	USCG Doc. No.:	623298
Vessel Service:	TOWING VESSEL	IMO Number:	*
Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
Hull Material:	STEEL	Hull Number:	4505
Ship Builder:	ST. LOUIS SHIP	Year Built:	1980
		Length (ft.):	297.5
Hailing Port:	SAN FRANCISCO CA	Hull Depth (ft.):	10.7
Owner:	KIRBY INLAND MARINE LP 55 WAUGH DR SUITE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	54
		Gross Tonnage:	2082
		Net Tonnage:	2082
Documentation Issuance Date:	December 15, 2008	Documentation Expiration Date:	January 31, 2010
Previous Vessel Names:	DC-305	Previous Vessel Owners:	CYPRESS BARGE LEASING IV LLC OFS MARINE ONE INC GATX CAPITAL CORPORATION

Coast Guard Vessel Documentation

You asked for a vessel with a name like "KIRBY 29303". That selection resulted in 1 matches.

(1 of 1)	Vessel Name:	KIRBY 29303	USCG Doc. No.:	624467
	Vessel Service:	TANK BARGE	IMO Number:	*
	Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
	Hull Material:	STEEL	Hull Number:	4506
	Ship Builder:	ST LOUIS SHIP	Year Built:	1980
			Length (ft.):	297.5
	Hailing Port:	SAN FRANCISCO CA	Hull Depth (ft.):	10.7
	Owner:	KIRBY INLAND MARINE LP 55 WAUGH DRIVE SUITE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	54
			Gross Tonnage:	2082
			Net Tonnage:	2082
	Documentation Issuance Date:	October 01, 2008	Documentation Expiration Date:	October 31, 2009
	Previous Vessel Names:	DC-306 DC 306	Previous Vessel Owners:	SIEMENS FINANCIAL INC OFS MARINE ONE INC TRUST AGREEMENT DTD 6/15/1980 WELLS FARGO BANK NORTHWEST TTEE

Coast Guard Vessel Documentation

Data found in current database.

Vessel Name:	KIRBY 29305	USCG Doc. No.:	626694
Vessel Service:	TANK BARGE	IMO Number:	*
Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
Hull Material:	STEEL	Hull Number:	4508
Ship Builder:	ST LOUIS SHIP	Year Built:	1980
		Length (ft.):	297.5
Hailing Port:	SAN FRANCISCO CA	Hull Depth (ft.):	10.7
Owner:	KIRBY INLAND MARINE LP 55 WAUGH DRIVE SUITE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	54
		Gross Tonnage:	2082
		Net Tonnage:	2082
Documentation Issuance Date:	October 01, 2008	Documentation Expiration Date:	October 31, 2009
Previous Vessel Names:	DC-308 DC 308	Previous Vessel Owners:	SIEMENS FINANCIAL INC OFS MARINE ONE INC WELLS FARGO BANK NORTHWEST TTEE

Coast Guard Vessel Documentation

Data found in current database.

Vessel Name:	KIRBY 29004	USCG Doc. No.:	628113
Vessel Service:	TANK BARGE	IMO Number:	*
Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
Hull Material:	STEEL	Hull Number:	4510
Ship Builder:	ST LOUIS SHIP	Year Built:	1980
		Length (ft.):	297.5
Hailing Port:	SAN FRANCISCO CA	Hull Depth (ft.):	10.7
Owner:	KIRBY INLAND MARINE LP 55 WAUGH DRIVE SUITE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	54
		Gross Tonnage:	2082
		Net Tonnage:	2082
Documentation Issuance Date:	October 01, 2008	Documentation Expiration Date:	October 31, 2009
Previous Vessel Names:	DC-310 DC 310	Previous Vessel Owners:	SIEMENS FINANCIAL INC OFS MARINE ONE INC WELLS FARGO BANK NORTHWEST TTEE

Coast Guard Vessel Documentation

Data found in current database.

Vessel Name:	KIRBY 10049	USCG Doc. No.:	1052322
Vessel Service:	TANK BARGE	IMO Number:	*
Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
Hull Material:	STEEL	Hull Number:	6534
Ship Builder:	DRAVO CORPORATION	Year Built:	1976
		Length (ft.):	195.1
Hailing Port:	WILMINGTON DE	Hull Depth (ft.):	10
Owner:	KIRBY INLAND MARINE LP A DELAWARE LIMITED PARTNERSHIP 55 WAUGH DRIVE SUITE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	35.1
		Gross Tonnage:	575
		Net Tonnage:	575
Documentation Issuance Date:	April 18, 2008	Documentation Expiration Date:	May 31, 2009
Previous Vessel Names:	DC 342	Previous Vessel Owners:	No Vessel Owner Changes

Coast Guard Vessel Documentation

Data found in current database.

Vessel Name:	KIRBY 10018	USCG Doc. No.:	1052325
Vessel Service:	TANK BARGE	IMO Number:	*
Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
Hull Material:	STEEL	Hull Number:	*
Ship Builder:	*	Year Built:	1976
		Length (ft.):	195.1
Hailing Port:	WILMINGTON DE	Hull Depth (ft.):	10
Owner:	KIRBY INLAND MARINE LP A DELAWARE LIMITED PARTNERSHIP 55 WAUGH DRIVE SUITE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	35.1
		Gross Tonnage:	575
		Net Tonnage:	575
Documentation Issuance Date:	April 18, 2008	Documentation Expiration Date:	May 31, 2009
Previous Vessel Names:	DC-345	Previous Vessel Owners:	No Vessel Owner Changes

Coast Guard Vessel Documentation

Data found in current database.

Vessel Name:	KIRBY 10022	USCG Doc. No.:	618802
Vessel Service:	TANK BARGE	IMO Number:	*
Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
Hull Material:	STEEL	Hull Number:	257
Ship Builder:	PLATZER SHIPYARD, INC	Year Built:	1980
		Length (ft.):	195
Hailing Port:	SAN FRANCISCO CA	Hull Depth (ft.):	10
Owner:	KIRBY INLAND MARINE LP 55 WAUGH DR SUITE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	35
		Gross Tonnage:	799
		Net Tonnage:	799
Documentation Issuance Date:	December 15, 2008	Documentation Expiration Date:	January 31, 2010
Previous Vessel Names:	DC 355	Previous Vessel Owners:	CYPRESS BARGE LEASING IV LLC OFS MARINE ONE INC GATX CAPITAL CORPORATION

Coast Guard Vessel Documentation

You asked for a vessel with a name like "KIRBY 10413". That selection resulted in 1 matches.

(1 of 1)	Vessel Name:	KIRBY 10413	USCG Doc. No.:	621171
	Vessel Service:	TOWING VESSEL	IMO Number:	*
	Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
	Hull Material:	STEEL	Hull Number:	259
	Ship Builder:	PLATZER SHIPYARD INC	Year Built:	1980
			Length (ft.):	195
	Hailing Port:	SAN FRANCISCO CA	Hull Depth (ft.):	10
	Owner:	KIRBY INLAND MARINE LP 55 WAUGH DR SUITE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	35
			Gross Tonnage:	799
			Net Tonnage:	799
	Documentation Issuance Date:	December 15, 2008	Documentation Expiration Date:	January 31, 2010
	Previous Vessel Names:	DC 357	Previous Vessel Owners:	CYPRESS BARGE LEASING IV LLC OFS MARINE ONE INC GATX CAPITAL CORPORATION

Coast Guard Vessel Documentation

You asked for a vessel with a name like "KIRBY 10415". That selection resulted in 1 matches.

(1 of 1)	Vessel Name:	KIRBY 10415	USCG Doc. No.:	621172
	Vessel Service:	TOWING VESSEL	IMO Number:	*
	Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
	Hull Material:	STEEL	Hull Number:	260
	Ship Builder:	PLATZER SHIPYARD, INC.	Year Built:	1980
			Length (ft.):	195
	Hailing Port:	SAN FRANCISCO CA	Hull Depth (ft.):	10
	Owner:	KIRBY INLAND MARINE LP 55 WAUGH DR SUITE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	35
			Gross Tonnage:	799
			Net Tonnage:	799
	Documentation Issuance Date:	December 15, 2008	Documentation Expiration Date:	January 31, 2010
	Previous Vessel Names:	DC 358	Previous Vessel Owners:	CYPRESS BARGE LEASING IV LLC OFS MARINE ONE INC GATX CAPITAL CORPORATION

Coast Guard Vessel Documentation

You asked for a vessel with a name like "KIRBY 10416". That selection resulted in 1 matches.

(1 of 1)	Vessel Name:	KIRBY 10416	USCG Doc. No.:	623559
	Vessel Service:	TOWING VESSEL	IMO Number:	*
	Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
	Hull Material:	STEEL	Hull Number:	261
	Ship Builder:	PLATZER SHIPYARD, INC.	Year Built:	1980
			Length (ft.):	195
	Hailing Port:	SAN FRANCISCO CA	Hull Depth (ft.):	10
	Owner:	KIRBY INLAND MARINE LP 55 WAUGH DR SUITE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	35
			Gross Tonnage:	799
			Net Tonnage:	799
	Documentation Issuance Date:	December 15, 2008	Documentation Expiration Date:	January 31, 2010
	Previous Vessel Names:	DC-359	Previous Vessel Owners:	CYPRESS BARGE LEASING IV LLC OFS MARINE ONE INC GATX CAPITAL CORPORATION

Coast Guard Vessel Documentation

You asked for a vessel with a name like "KIRBY 10417". That selection resulted in 1 matches.

(1 of 1)	Vessel Name:	KIRBY 10417	USCG Doc. No.:	624468
	Vessel Service:	TANK BARGE	IMO Number:	*
	Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
	Hull Material:	STEEL	Hull Number:	262
	Ship Builder:	PLATZER SHIPYARD INC	Year Built:	1980
			Length (ft.):	195
	Hailing Port:	SAN FRANCISCO CA	Hull Depth (ft.):	10
	Owner:	KIRBY INLAND MARINE LP 55 WAUGH DRIVE SUITE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	35
			Gross Tonnage:	799
			Net Tonnage:	799
	Documentation Issuance Date:	October 01, 2008	Documentation Expiration Date:	October 31, 2009
	Previous Vessel Names:	DC-360 DC 360	Previous Vessel Owners:	SIEMENS FINANCIAL INC OFS MARINE ONE INC WELLS FARGO BANK NORTHWEST TTEE

Coast Guard Vessel Documentation

Data found in current database.

Vessel Name:	KIRBY 10023	USCG Doc. No.:	625982
Vessel Service:	TANK BARGE	IMO Number:	*
Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
Hull Material:	STEEL	Hull Number:	263
Ship Builder:	PLATZER SHIPYARD INC	Year Built:	1980
		Length (ft.):	195
Hailing Port:	SAN FRANCISCO CA	Hull Depth (ft.):	10
Owner:	KIRBY INLAND MARINE LP	Hull Breadth (ft.):	35
	55 WAUGH DRIVE SUITE 1000	Gross Tonnage:	799
	HOUSTON, TX 77007	Net Tonnage:	799
Documentation Issuance Date:	October 01, 2008	Documentation Expiration Date:	October 31, 2009
Previous Vessel Names:	DC 361	Previous Vessel Owners:	SIEMENS FINANCIAL INC OFS MARINE ONE INC

Coast Guard Vessel Documentation

Data found in current database.

Vessel Name:	KIRBY 10024	USCG Doc. No.:	626910
Vessel Service:	TANK BARGE	IMO Number:	*
Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
Hull Material:	STEEL	Hull Number:	264
Ship Builder:	PLATZER SHIPYARD INC	Year Built:	1980
		Length (ft.):	195
Hailing Port:	SAN FRANCISCO CA	Hull Depth (ft.):	10
Owner:	KIRBY INLAND MARINE LP 55 WAUGH DRIVE SUITE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	35
		Gross Tonnage:	799
		Net Tonnage:	799
Documentation Issuance Date:	October 01, 2008	Documentation Expiration Date:	October 31, 2009
Previous Vessel Names:	DC-362 DC 362	Previous Vessel Owners:	SIEMENS FINANCIAL INC OFS MARINE ONE INC TRUST AGREEMENT DTD 6/15/1980 WELLS FARGO BANK NORTHWEST TTEE

Coast Guard Vessel Documentation

Data found in current database.

Vessel Name:	KIRBY 10025	USCG Doc. No.:	609217
Vessel Service:	TOWING VESSEL	IMO Number:	*
Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
Hull Material:	STEEL	Hull Number:	7480
Ship Builder:	DRAVO CORPORATION	Year Built:	1979
		Length (ft.):	195
Hailing Port:	SAN FRANCISCO CA	Hull Depth (ft.):	10
Owner:	KIRBY INLAND MARINE LP 55 WAUGH DR SUITE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	35
		Gross Tonnage:	774
Documentation Issuance Date:	December 15, 2008	Net Tonnage:	774
		Documentation Expiration Date:	January 31, 2010
Previous Vessel Names:	DC-370	Previous Vessel Owners:	CYPRESS BARGE LEASING III LLC OFS MARINE ONE INC GATX CAPITAL CORPORATION

Coast Guard Vessel Documentation

Data found in current database.

Vessel Name:	KIRBY 10027	USCG Doc. No.:	609219
Vessel Service:	TOWING VESSEL	IMO Number:	*
Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
Hull Material:	STEEL	Hull Number:	7482
Ship Builder:	DRAVO CORPORATION	Year Built:	1979
		Length (ft.):	195
Hailing Port:	SAN FRANCISCO CA	Hull Depth (ft.):	10
Owner:	KIRBY INLAND MARINE LP 55 WAUGH DR SUITE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	35
		Gross Tonnage:	774
		Net Tonnage:	774
Documentation Issuance Date:	December 15, 2008	Documentation Expiration Date:	January 31, 2010
Previous Vessel Names:	DC 372	Previous Vessel Owners:	CYPRESS BARGE LEASING III LLC OFS MARINE ONE INC GATX CAPITAL CORPORATION

Coast Guard Vessel Documentation

Data found in current database.

Vessel Name:	KIRBY 10029	USCG Doc. No.:	609221
Vessel Service:	TOWING VESSEL	IMO Number:	*
Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
Hull Material:	STEEL	Hull Number:	7484
Ship Builder:	DRAVO CORPORATION	Year Built:	1979
		Length (ft.):	195
Hailing Port:	SAN FRANCISCO CA	Hull Depth (ft.):	10
Owner:	KIRBY INLAND MARINE LP 55 WAUGH DR SUITE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	35
		Gross Tonnage:	774
		Net Tonnage:	774
Documentation Issuance Date:	December 15, 2008	Documentation Expiration Date:	January 31, 2010
Previous Vessel Names:	DC 374	Previous Vessel Owners:	CYPRESS BARGE LEASING III LLC OFS MARINE ONE INC GATX CAPITAL CORPORATION

Coast Guard Vessel Documentation

You asked for a vessel with a name like "KIRBY 7501". That selection resulted in 1 matches.

(1 of 1)	Vessel Name:	KIRBY 7501	USCG Doc. No.:	625974
	Vessel Service:	TANK BARGE	IMO Number:	*
	Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
	Hull Material:	STEEL	Hull Number:	7951
	Ship Builder:	DRAVO CORPORATION	Year Built:	1980
			Length (ft.):	195
	Hailing Port:	SAN FRANCISCO CA	Hull Depth (ft.):	10
	Owner:	KIRBY INLAND MARINE LP 55 WAUGH DRIVE SUITE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	35
			Gross Tonnage:	774
			Net Tonnage:	774
	Documentation Issuance Date:	October 01, 2008	Documentation Expiration Date:	October 31, 2009
	Previous Vessel Names:	DC-398 DC 398	Previous Vessel Owners:	SIEMENS FINANCIAL INC OFS MARINE ONE INC WELLS FARGO BANK NORTHWEST TTEE

Coast Guard Vessel Documentation

You asked for a vessel with a name like "KIRBY 11503". That selection resulted in 1 matches.

(1 of 1)	Vessel Name:	KIRBY 11503	USCG Doc. No.:	962028
	Vessel Service:	TANK BARGE	IMO Number:	*
	Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
	Hull Material:	STEEL	Hull Number:	5410
	Ship Builder:	CARUTHERSVILLE SHIPYARD	Year Built:	1990
			Length (ft.):	200
	Hailing Port:	WILMINGTON DE	Hull Depth (ft.):	12
	Owner:	KIRBY INLAND MARINE LP A DELAWARE LIMITED PARTNERSHIP 55 WAUGH DRIVE SUITE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	35
			Gross Tonnage:	766
			Net Tonnage:	500
	Documentation Issuance Date:	April 18, 2008	Documentation Expiration Date:	May 31, 2009
	Previous Vessel Names:	DMI 1121	Previous Vessel Owners:	No Vessel Owner Changes

Coast Guard Vessel Documentation

You asked for a vessel with a name like "KIRBY 11500". That selection resulted in 1 matches.

(1 of 1)	Vessel Name:	KIRBY 11500	USCG Doc. No.:	962023
	Vessel Service:	TANK BARGE	IMO Number:	*
	Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
	Hull Material:	STEEL	Hull Number:	5371
	Ship Builder:	CARUTHERSVILLE SHIPYARD	Year Built:	1990
			Length (ft.):	200
	Hailing Port:	WILMINGTON DE	Hull Depth (ft.):	12
	Owner:	KIRBY INLAND MARINE LP 55 WAUGH DRIVE STE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	35
			Gross Tonnage:	766
			Net Tonnage:	500
	Documentation Issuance Date:	January 09, 2008	Documentation Expiration Date:	February 28, 2009
	Previous Vessel Names:	DXE 1116	Previous Vessel Owners:	No Vessel Owner Changes

Coast Guard Vessel Documentation

You asked for a vessel with a name like "KIRBY 11509". That selection resulted in 1 matches.

(1 of 1)	Vessel Name:	KIRBY 11509	USCG Doc. No.:	962025
	Vessel Service:	TANK BARGE	IMO Number:	*
	Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
	Hull Material:	STEEL	Hull Number:	5407
	Ship Builder:	CARUTHERSVILLE SHIPYARD	Year Built:	1990
			Length (ft.):	200
	Hailing Port:	WILMINGTON DE	Hull Depth (ft.):	12
	Owner:	KIRBY INLAND MARINE LP 55 WAUGH DRIVE STE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	35
			Gross Tonnage:	766
			Net Tonnage:	500
	Documentation Issuance Date:	January 09, 2008	Documentation Expiration Date:	February 28, 2009
	Previous Vessel Names:	DXE 1118	Previous Vessel Owners:	No Vessel Owner Changes

Coast Guard Vessel Documentation

You asked for a vessel with a name like "KIRBY 11505". That selection resulted in 1 matches.

(1 of 1)	Vessel Name:	KIRBY 11505	USCG Doc. No.:	962030
	Vessel Service:	TANK BARGE	IMO Number:	*
	Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
	Hull Material:	STEEL	Hull Number:	5412
	Ship Builder:	CARUTHERSVILLE SHIPYARD	Year Built:	1990
			Length (ft.):	200
	Hailing Port:	HOUSTON TX	Hull Depth (ft.):	12
	Owner:	KIRBY INLAND MARINE LP 55 WAUGH DRIVE STE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	35
			Gross Tonnage:	766
			Net Tonnage:	500
	Documentation Issuance Date:	January 09, 2008	Documentation Expiration Date:	February 28, 2009
	Previous Vessel Names:	DXE 1123	Previous Vessel Owners:	No Vessel Owner Changes

Coast Guard Vessel Documentation

You asked for a vessel with a name like "KIRBY 23301". That selection resulted in 1 matches.

(1 of 1)	Vessel Name:	KIRBY 23301	USCG Doc. No.:	536268
	Vessel Service:	TANK BARGE	IMO Number:	*
	Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
	Hull Material:	STEEL	Hull Number:	1947
	Ship Builder:	AVONDALE SHIPYARDS INC	Year Built:	1971
			Length (ft.):	272
	Hailing Port:	WILMINGTON, DE	Hull Depth (ft.):	10.5
	Owner:	KIRBY INLAND MARINE LP A DELAWARE LIMITED PARTNERSHIP 55 WAUGH DRIVE SUITE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	50.2
			Gross Tonnage:	1424
			Net Tonnage:	1424
	Documentation Issuance Date:	April 18, 2008	Documentation Expiration Date:	May 31, 2009
	Previous Vessel Names:	DXE 233 DC	Previous Vessel Owners:	No Vessel Owner Changes

Coast Guard Vessel Documentation

You asked for a vessel with a name like "KIRBY 23000". That selection resulted in 1 matches.

(1 of 1)	Vessel Name:	KIRBY 23000 B	USCG Doc. No.:	536743
	Vessel Service:	TANK BARGE	IMO Number:	*
	Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
	Hull Material:	STEEL	Hull Number:	204
	Ship Builder:	GRETNA MACHINE IRON WORKS	Year Built:	1971
			Length (ft.):	252.5
	Hailing Port:	WILMINGTON, DE	Hull Depth (ft.):	11.7
	Owner:	KIRBY INLAND MARINE LP A DELAWARE LIMITED PARTNERSHIP 55 WAUGH DRIVE SUITE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	50.1
			Gross Tonnage:	1762
			Net Tonnage:	1762
	Documentation Issuance Date:	April 18, 2008	Documentation Expiration Date:	May 31, 2009
	Previous Vessel Names:	STCO 2303 DXE-237-BDC	Previous Vessel Owners:	No Vessel Owner Changes

Coast Guard Vessel Documentation

You asked for a vessel with a name like "KIRBY 28005". That selection resulted in 1 matches.

(1 of 1)	Vessel Name:	KIRBY 28005B	USCG Doc. No.:	600338
	Vessel Service:	TANK BARGE	IMO Number:	*
	Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
	Hull Material:	STEEL	Hull Number:	2960
	Ship Builder:	NASHVILLE BRIDGE COMPANY	Year Built:	1978
			Length (ft.):	290
	Hailing Port:	WILMINGTON DE	Hull Depth (ft.):	12
	Owner:	KIRBY INLAND MARINE LP 55 WAUGH DRIVE STE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	52.5
			Gross Tonnage:	2013
			Net Tonnage:	2013
	Documentation Issuance Date:	January 09, 2008	Documentation Expiration Date:	February 28, 2009
	Previous Vessel Names:	DXE 2805B	Previous Vessel Owners:	No Vessel Owner Changes

Coast Guard Vessel Documentation

You asked for a vessel with a name like "KIRBY 28306". That selection resulted in 1 matches.

(1 of 1)	Vessel Name:	KIRBY 28306	USCG Doc. No.:	972841
	Vessel Service:	TANK BARGE	IMO Number:	*
	Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
	Hull Material:	STEEL	Hull Number:	90-2287
	Ship Builder:	JEFFBOAT	Year Built:	1991
			Length (ft.):	297.5
	Hailing Port:	WILMINGTON DE	Hull Depth (ft.):	12
	Owner:	KIRBY INLAND MARINE LP 55 WAUGH DRIVE STE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	54
			Gross Tonnage:	1619
			Net Tonnage:	1619
	Documentation Issuance Date:	January 09, 2008	Documentation Expiration Date:	February 28, 2009
	Previous Vessel Names:	DXE 2907	Previous Vessel Owners:	No Vessel Owner Changes

Coast Guard Vessel Documentation

You asked for a vessel with a name like "KIRBY 10307". That selection resulted in 1 matches.

(1 of 1)	Vessel Name:	KIRBY 10307	USCG Doc. No.:	518613
	Vessel Service:	TANK BARGE	IMO Number:	*
	Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
	Hull Material:	STEEL	Hull Number:	2229
	Ship Builder:	JEFFBOAT INC	Year Built:	1969
			Length (ft.):	195
	Hailing Port:	WILMINGTON DE	Hull Depth (ft.):	10.7
	Owner:	KIRBY INLAND MARINE LP 55 WAUGH DRIVE STE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	35.1
			Gross Tonnage:	812
			Net Tonnage:	812
	Documentation Issuance Date:	January 09, 2008	Documentation Expiration Date:	February 28, 2009
	Previous Vessel Names:	ETT 110	Previous Vessel Owners:	No Vessel Owner Changes

Coast Guard Vessel Documentation

Data found in current database.

Vessel Name:	KIRBY 10032	USCG Doc. No.:	530993
Vessel Service:	TANK BARGE	IMO Number:	*
Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
Hull Material:	STEEL	Hull Number:	5437
Ship Builder:	DRAVO CORPORATION	Year Built:	1971
		Length (ft.):	195.1
Hailing Port:	WILMINGTON DE	Hull Depth (ft.):	10.1
Owner:	KIRBY INLAND MARINE LP	Hull Breadth (ft.):	35.1
	55 WAUGH DRIVE STE	Gross Tonnage:	798
	1000	Net Tonnage:	798
	HOUSTON, TX 77007		
Documentation Issuance Date:	January 09, 2008	Documentation Expiration Date:	February 28, 2009
Previous Vessel Names:	ETT 113	Previous Vessel Owners:	No Vessel Owner Changes

Coast Guard Vessel Documentation

Data found in current database.

Vessel Name:	KIRBY 10033	USCG Doc. No.:	530994
Vessel Service:	TANK BARGE	IMO Number:	*
Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
Hull Material:	STEEL	Hull Number:	5438
Ship Builder:	DRAVO CORPORATION	Year Built:	1971
		Length (ft.):	195.1
Hailing Port:	HOUSTON TX	Hull Depth (ft.):	10.1
Owner:	KIRBY INLAND MARINE LP 55 WAUGH DRIVE STE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	35.1
		Gross Tonnage:	798
		Net Tonnage:	798
Documentation Issuance Date:	January 09, 2008	Documentation Expiration Date:	February 28, 2009
Previous Vessel Names:	ETT 114	Previous Vessel Owners:	No Vessel Owner Changes

Coast Guard Vessel Documentation

Data found in current database.

Vessel Name:	KIRBY 10034	USCG Doc. No.:	530995
Vessel Service:	TANK BARGE	IMO Number:	*
Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
Hull Material:	STEEL	Hull Number:	5439
Ship Builder:	DRAVO CORPORATION	Year Built:	1971
		Length (ft.):	195.1
Hailing Port:	WILMINGTON DE	Hull Depth (ft.):	10.1
Owner:	KIRBY INLAND MARINE LP 55 WAUGH DRIVE STE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	35.1
		Gross Tonnage:	798
		Net Tonnage:	798
Documentation Issuance Date:	January 09, 2008	Documentation Expiration Date:	February 28, 2009
Previous Vessel Names:	ETT 115	Previous Vessel Owners:	No Vessel Owner Changes

Coast Guard Vessel Documentation

You asked for a vessel with a name like "KIRBY 24703". That selection resulted in 1 matches.

(1 of 1)	Vessel Name:	KIRBY 24703	USCG Doc. No.:	1027117
	Vessel Service:	TANK BARGE	IMO Number:	*
	Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
	Hull Material:	STEEL	Hull Number:	1994-2
	Ship Builder:	TRINITY MARINE GROUP	Year Built:	1994
			Length (ft.):	299.6
	Hailing Port:	HOUSTON TX	Hull Depth (ft.):	12
	Owner:	KIRBY INLAND MARINE LP 55 WAUGH DRIVE STE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	50
			Gross Tonnage:	1406
			Net Tonnage:	1406
	Documentation Issuance Date:	January 09, 2008	Documentation Expiration Date:	February 28, 2009
	Previous Vessel Names:	HOLLYWOOD 2524	Previous Vessel Owners:	No Vessel Owner Changes

Coast Guard Vessel Documentation

Data found in current database.

Vessel Name:	BLUEFISH	USCG Doc. No.:	568531
Vessel Service:	TOWING VESSEL	IMO Number:	*
Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
Hull Material:	STEEL	Hull Number:	52
Ship Builder:	HOUMA WELDERS, INC.	Year Built:	1975
		Length (ft.):	48.8
Hailing Port:	WILMINGTON DE	Hull Depth (ft.):	9.3
Owner:	KIRBY INLAND MARINE LP A DELAWARE LIMITED PARTNERSHIP 55 WAUGH DRIVE SUITE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	28
		Gross Tonnage:	85
		Net Tonnage:	64
Documentation Issuance Date:	April 18, 2008	Documentation Expiration Date:	May 31, 2009
Previous Vessel Names:	No Vessel Name Changes	Previous Vessel Owners:	No Vessel Owner Changes

Coast Guard Vessel Documentation

Data found in current database.

Vessel Name:	CITY OF FREEPORT	USCG Doc. No.:	629736
Vessel Service:	TOWING VESSEL	IMO Number:	*
Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
Hull Material:	STEEL	Hull Number:	61
Ship Builder:	GREENVILLE SHIPBLDG CORP	Year Built:	1980
		Length (ft.):	67.5
Hailing Port:	WILMINGTON DE	Hull Depth (ft.):	7.6
Owner:	KIRBY INLAND MARINE LP A DELAWARE LIMITED PARTNERSHIP 55 WAUGH DRIVE SUITE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	28
		Gross Tonnage:	172
		Net Tonnage:	117
Documentation Issuance Date:	January 09, 2008	Documentation Expiration Date:	February 28, 2009
Previous Vessel Names:	M B FREEMAN	Previous Vessel Owners:	No Vessel Owner Changes

Coast Guard Vessel Documentation

You asked for a vessel with a name like "KIRBY 11003". That selection resulted in 1 matches.

(1 of 1)	Vessel Name:	KIRBY 11003	USCG Doc. No.:	641589
	Vessel Service:	TANK BARGE	IMO Number:	*
	Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
	Hull Material:	STEEL	Hull Number:	280
	Ship Builder:	PLATZER SHIPYARD, INC.	Year Built:	1981
			Length (ft.):	200
	Hailing Port:	WILMINGTON DE	Hull Depth (ft.):	10
	Owner:	KIRBY INLAND MARINE LP A DELAWARE LIMITED PARTNERSHIP 55 WAUGH DRIVE SUITE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	35
			Gross Tonnage:	822
			Net Tonnage:	822
	Documentation Issuance Date:	April 18, 2008	Documentation Expiration Date:	May 31, 2009
	Previous Vessel Names:	RIO 400	Previous Vessel Owners:	No Vessel Owner Changes

Coast Guard Vessel Documentation

You asked for a vessel with a name like "KIRBY 11004". That selection resulted in 1 matches.

(1 of 1)	Vessel Name:	KIRBY 11004	USCG Doc. No.:	642645
	Vessel Service:	TANK BARGE	IMO Number:	*
	Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
	Hull Material:	STEEL	Hull Number:	281
	Ship Builder:	PLATZER SHIPYARD, INC.	Year Built:	1981
			Length (ft.):	200
	Hailing Port:	WILMINGTON DE	Hull Depth (ft.):	10
	Owner:	KIRBY INLAND MARINE LP A DELAWARE LIMITED PARTNERSHIP 55 WAUGH DRIVE SUITE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	35
			Gross Tonnage:	822
			Net Tonnage:	822
	Documentation Issuance Date:	April 18, 2008	Documentation Expiration Date:	May 31, 2009
	Previous Vessel Names:	RIO 500	Previous Vessel Owners:	No Vessel Owner Changes

Coast Guard Vessel Documentation

You asked for a vessel with a name like "KIRBY 10530". That selection resulted in 1 matches.

(1 of 1)	Vessel Name:	KIRBY 10530	USCG Doc. No.:	626998
	Vessel Service:	TANK BARGE	IMO Number:	*
	Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
	Hull Material:	STEEL	Hull Number:	8009
	Ship Builder:	DRAVO CORPORATION	Year Built:	1980
			Length (ft.):	195
	Hailing Port:	WILMINGTON DE	Hull Depth (ft.):	10
	Owner:	KIRBY INLAND MARINE LP A DELAWARE LIMITED PARTNERSHIP 55 WAUGH DRIVE SUITE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	35
			Gross Tonnage:	774
			Net Tonnage:	774
	Documentation Issuance Date:	April 18, 2008	Documentation Expiration Date:	May 31, 2009
	Previous Vessel Names:	SC 1902	Previous Vessel Owners:	No Vessel Owner Changes

Coast Guard Vessel Documentation

You asked for a vessel with a name like "KIRBY 10330". That selection resulted in 1 matches.

(1 of 1)	Vessel Name:	KIRBY 10330	USCG Doc. No.:	569781
	Vessel Service:	TANK BARGE	IMO Number:	*
	Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
	Hull Material:	STEEL	Hull Number:	6544
	Ship Builder:	DRAVO CORPORATION	Year Built:	1976
			Length (ft.):	195.1
	Hailing Port:	WILMINGTON DE	Hull Depth (ft.):	10
	Owner:	KIRBY INLAND MARINE LP A DELAWARE LIMITED PARTNERSHIP 55 WAUGH DRIVE SUITE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	35.1
			Gross Tonnage:	773
			Net Tonnage:	773
	Documentation Issuance Date:	April 18, 2008	Documentation Expiration Date:	May 31, 2009
	Previous Vessel Names:	SC 1905	Previous Vessel Owners:	No Vessel Owner Changes

Coast Guard Vessel Documentation

You asked for a vessel with a name like "KIRBY 10344". That selection resulted in 1 matches.

(1 of 1)	Vessel Name:	KIRBY 10344	USCG Doc. No.:	569784
	Vessel Service:	TANK BARGE	IMO Number:	*
	Trade Indicator:	Coastwise Unrestricted	Call Sign:	*
	Hull Material:	STEEL	Hull Number:	*
	Ship Builder:	DRAVO CORPORATION	Year Built:	1976
			Length (ft.):	195.1
	Hailing Port:	WILMINGTON, DE	Hull Depth (ft.):	10
	Owner:	KIRBY INLAND MARINE LP A DELAWARE LIMITED PARTNERSHIP 55 WAUGH DRIVE SUITE 1000 HOUSTON, TX 77007	Hull Breadth (ft.):	35.1
			Gross Tonnage:	773
			Net Tonnage:	773
	Documentation Issuance Date:	April 18, 2008	Documentation Expiration Date:	May 31, 2009
	Previous Vessel Names:	SC 1908	Previous Vessel Owners:	No Vessel Owner Changes

Attachment 2

Summary of Kirby Vessels Serviced at Gulfco
Detail Report

Summary of Kirby Barges Serviced at Gulfco

For the Period June 1994 - May 1997

Sorted by Barge Name and Job Number

Barge Name: DC-305

Barge Owner: Kirby

Current Barge Name: KIRBY 29002

USCG Doc No: 623298

USCG File Name: KIRBY 29002 [DC 305].pdf

Barge Notes:

Hercules Job No: 4733**Date: 6/30/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000092

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000192.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: PYROLYSIS GASOLINE

Work Type:

Bates Number: HER 02097

File Contents: 4733 - DC-305 - DIXIE CARRIERS / HERCULES - PYROLYSIS GASOLINE

Barge Name: DC-306

Barge Owner: Kirby

Current Barge Name: KIRBY 29303

USCG Doc No: 624467

USCG File Name: KIRBY 29303 [DC 306].pdf

Barge Notes:

Hercules Job No: 4471**Date: 12/29/1994****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000226

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000710.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: STYRENE

Work Type: STRIP, BLOW

Bates Number: HER 04147

File Contents: 4471 - DC-306 - DIXIE CARRIERS / HERCULES - STYRENE (STYROL, VINYL BENZENE, PHENYLETHYLENE)

Barge Name: DC-308

Barge Owner: Kirby

Current Barge Name: KIRBY 29305

USCG Doc No: 626694

USCG File Name: KIRBY 29305 [DC 308].pdf

Barge Notes:

Hercules Job No: 4523**Date: 2/13/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000268

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000749.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: STYRENE

Work Type:

Bates Number: HER 05079

File Contents: 4523 - DC-308 - DIXIE CARRIERS / HERCULES - STYRENE

Hercules Job No: 4756**Date: 7/31/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000098

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000198.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: XYLENE

Work Type: STRIP, BLOW

Bates Number: HER 02198

File Contents: 4756 - DC-308 - DIXIE CARRIERS / HERCULES - XYLENE

Barge Name: DC-310

Barge Owner: Kirby

Current Barge Name: KIRBY 29004

USCG Doc No: 628113

USCG File Name: KIRBY 29004 [DC 310].pdf

Barge Notes:

Hercules Job No: 4653**Date: 5/10/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000131

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000658.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: ETHYL BENZENE

Work Type: STRIP

Bates Number: HER 02780

File Contents: 4653 - DC-310 - DIXIE CARRIERS / HERCULES - ETHYL BENZENE

Barge Name: DC-342

Barge Owner: Kirby

Current Barge Name: KIRBY 10049

USCG Doc No: 1052322

USCG File Name: KIRBY 10049 [DC 342].pdf

Barge Notes:

Hercules Job No: 4622**Date: 4/5/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000307

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000788.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: STYRENE

Work Type:

Bates Number: HER 05816

File Contents: *4622 - DC-342 - DIXIE CARRIERS / HERCULES - STYRENE***Hercules Job No: 4742****Date: 7/21/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000093

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000193.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: PERCHLOROETHYLENE

Work Type:

Bates Number: HER 02117

File Contents: *4742 - DC-342 - DIXIE CARRIERS / HERCULES - PERCHLOROETHYLENE*

Barge Name: DC-345

Barge Owner: Kirby

Current Barge Name: KIRBY 10018

USCG Doc No: 1052325

USCG File Name: KIRBY 10018 [DC 345].pdf

Barge Notes:

Hercules Job No: 4703**Date: 6/16/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000119

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000649.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: DOWANOL (R) PM GLYCOL ETHER

Work Type: STRIP

Bates Number: HER 02554

File Contents: 4703 - DC-345 - DIXIE CARRIERS / HERCULES - DOWANOL (R) PM GLYCOL ETHER

Hercules Job No: 4710**Date: 6/30/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000122

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000222.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: TRICHLOROETHYLENE

Work Type:

Bates Number: HER 02606

File Contents: 4710 - DC-345 - DIXIE CARRIERS / HERCULES - TRICHLOROETHYLENE

Hercules Job No: 4727**Date: 6/30/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000089

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000189.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: TRICHLOROETHYLENE

Work Type:

Bates Number: HER 02058

File Contents: 4727 - DC-345 - DIXIE CARRIERS / HERCULES - TRICHLOROETHYLENE (NEU -

Hercules Job No: 4775**Date: 7/31/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000067

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000167.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: TRICHLOROETHYLEN 95%

Work Type:

Bates Number: HER 01758

File Contents: 4775 - DC-345 - DIXIE CARRIERS / HERCULES - NEU - TRI+ (TRICHLOROETHYLEN 95%)

Hercules Job No: 4790 **Date:** 8/30/1995 **Documents:** Job Files, includes Invoice
Customer: Dixie Carriers EPA File No: R6JZ010001000069
Address: 2102 Broadway, Houston, TX 77012- PDF File: 8000169.pdf
Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*
Cargo/Chemicals: TRICHLOROETHYLEN 95%
Work Type: Bates Number: HER 01785
File Contents: 4790 - DC-345 - DIXIE CARRIERS / HERCULES - NEU - TRI+ (TRICHLOROETHYLEN 95%)

Hercules Job No: 4799 **Date:** 8/30/1995 **Documents:** Job Files, includes Invoice
Customer: Dixie Carriers EPA File No: R6JZ010001000071
Address: 2102 Broadway, Houston, TX 77012- PDF File: 8000171.pdf
Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*
Cargo/Chemicals: TRICHLOROETHYLEN 95%
Work Type: Bates Number: HER 01820
File Contents: 4799 - DC-345 - DIXIE CARRIERS / HERCULES - NEU - TRI+ (TRICHLOROETHYLEN 95%)

Barge Name: <u>DC-355</u>	
Barge Owner: Kirby	Current Barge Name: KIRBY 10022
USCG Doc No: 618802	USCG File Name: KIRBY 10022 [DC 355].pdf
Barge Notes:	

Hercules Job No: 4634 **Date:** 4/20/1995 **Documents:** Job Files, includes Invoice
Customer: Dixie Carriers EPA File No: R6JZ010001000311
Address: 2102 Broadway, Houston, TX 77012- PDF File: 8000792.pdf
Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*
Cargo/Chemicals: CARBON TETRACHLORIDE
Work Type: STRIP, BLOW Bates Number: HER 05904
File Contents: 4634 - DC-355 - DIXIE CARRIERS / HERCULES - CARBON TETRACHLORIDE

Barge Name: DC-357

Barge Owner: Kirby

Current Barge Name: KIRBY 10413

USCG Doc No: 621171

USCG File Name: KIRBY 10413 [DC 357].pdf

Barge Notes:

Hercules Job No: 4565**Date: 3/23/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000283

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000764.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: BUTANOL

Work Type:

Bates Number: HER 05357

File Contents: 4565 - DC-357 - DIXIE CARRIERS / HERCULES - N - BUTANOL

Hercules Job No: 4821**Date: 9/15/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000074

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000174.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: ANTI-FREEZE

Work Type: STRIP, BLOW, HOT WATER WASH

Bates Number: HER 01875

File Contents: 4821 - DC-357 - DIXIE / HERCULES - ETHYLENE GLYCOL (MIX ANTI - FREEZE, GRADE 95 - 5)

Barge Name: DC-358

Barge Owner: Kirby

Current Barge Name: KIRBY 10415

USCG Doc No: 621172

USCG File Name: KIRBY 10415 [DC 358].pdf

Barge Notes:

Hercules Job No: 4525**Date: 2/13/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000269

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000750.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: METHANOL

Work Type:

Bates Number: HER 05092

File Contents: 4525 - DC-358 - DIXIE CARRIERS / HERCULES - METHANOL (METHYL ALCOHOL)

Hercules Job No: 4670**Date: 5/17/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000142

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000669.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: BUTANOL

Work Type: STRIP

Bates Number: HER 02968

File Contents: 4670 - DC-358 - DIXIE CARRIERS / HERCULES - N - BUTANOL

Hercules Job No: 4758**Date: 7/31/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000099

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000199.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: GLYCOL ETHINOL

Work Type:

Bates Number: HER 02210

File Contents: 4758 - DC-358 - DIXIE CARRIERS / HERCULES - DOWANOL (R) PM GLYCOL ETH

Barge Name: DC-359

Barge Owner: Kirby

Current Barge Name: KIRBY 10416

USCG Doc No: 623559

USCG File Name: KIRBY 10416 [DC 359].pdf

Barge Notes:

Hercules Job No: 4598**Date: 4/4/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000295

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000776.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: ACETONE

Work Type:

Bates Number: HER 05597

File Contents: 4598 - DC-359 - DIXIE CARRIERS / HERCULES - ACETONE

Hercules Job No: 4623**Date: 4/11/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000308

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000789.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: METHANOL

Work Type: STRIP, BLOW

Bates Number: HER 05846

File Contents: 4623 - DC-359 - DIXIE CARRIERS / HERCULES - METHANOL (METHYL ALCOHOL)

Hercules Job No: 4724**Date: 6/30/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000087

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000187.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: ACETONE

Work Type:

Bates Number: HER 02020

File Contents: 4724 - DC-359 - DIXIE CARRIERS / HERCULES - ACETONE

Barge Name: DC-360

Barge Owner: Kirby

Current Barge Name: KIRBY 10417

USCG Doc No: 624468

USCG File Name: KIRBY 10417 [DC 360].pdf

Barge Notes:

Hercules Job No: 4497**Date: 1/27/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000262

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000743.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: METHYLENE CHLORIDE

Work Type: STRIP, BLOW

Bates Number: HER 04950

File Contents: 4497 - DC-360 - DIXIE CARRIERS / HERCULES - METHYLENE CHLORIDE, TECH.

Hercules Job No: 4613**Date: 4/5/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000301

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000782.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: METHANOL

Work Type: STRIP, BLOW

Bates Number: HER 05711

File Contents: 4613 - DC-360 - DIXIE CARRIERS / HERCULES - METHANOL (METHYL ALCOHOL)

Hercules Job No: 4672**Date: 5/25/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000107

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000637.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: ACETONE

Work Type: STRIP

Bates Number: HER 02334

File Contents: 4672 - DC-360 - DIXIE CARRIERS / HERCULES - ACETONE

Hercules Job No: 4684**Date: 6/6/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000112

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000642.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: METHANOL, ACETONE

Work Type: STRIP

Bates Number: HER 02439

File Contents: 4684 - DC-360 - DIXIE CARRIERS / HERCULES - METHANOL

Barge Name: DC-361

Barge Owner: Kirby

Current Barge Name: KIRBY 10023

USCG Doc No: 625982

USCG File Name: KIRBY 10023 [DC 361].pdf

Barge Notes:

Hercules Job No: 4474**Date:** 1/5/1995**Documents:** Job Files, includes Invoice**Customer:** Dixie Carriers

EPA File No: R6JZ010001000227

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000711.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: BTX (TOLUENE/BENZENE MIX)

Work Type: HOT WATER WASH

Bates Number: HER 04165

File Contents: 4474 - DC-361 - DIXIE CARRIERS / HERCULES - TOLUENE / BENZENE MIXTURE (BTX)

Hercules Job No: 4530**Date:** 2/13/1995**Documents:** Job Files, includes Invoice**Customer:** Dixie Carriers

EPA File No: R6JZ010001000272

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000753.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: TOLUENE / BENZENE MIXTURE (BTX)

Work Type:

Bates Number: HER 05142

File Contents: 4530 - DC-361 - DIXIE CARRIERS / HERCULES - TOLUENE / BENZENE MIXTURE (BTX)

Barge Name: DC-362

Barge Owner: Kirby

Current Barge Name: KIRBY 10024

USCG Doc No: 626910

USCG File Name: KIRBY 10024 [DC 362].pdf

Barge Notes:

Hercules Job No: 4640**Date:** 5/10/1995**Documents:** Job Files, includes Invoice**Customer:** Dixie Carriers

EPA File No: R6JZ010001000314

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000795.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: TOULENE / BENZENE MIXTURE (BTX)

Work Type:

Bates Number: HER 05974

File Contents: 4640 - DC-362 - DIXIE CARRIERS / HERCULES - TOLUENE / BENZENE MIXTURE (BTX)

Hercules Job No: 4673**Date:** 5/25/1995**Documents:** Job Files, includes Invoice**Customer:** Dixie Carriers

EPA File No: R6JZ010001000108

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000638.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: ETHYL BENZENE

Work Type: STRIP

Bates Number: HER 02350

File Contents: 4673 - DC-362 - DIXIE CARRIERS / HERCULES - ETHYL BENZENE

Barge Name: DC-370

Barge Owner: Kirby

Current Barge Name: KIRBY 10025

USCG Doc No: 609217

USCG File Name: KIRBY 10025 [DC 370].pdf

Barge Notes:

Hercules Job No: 4638**Date:** 4/19/1995**Documents:** Job Files, includes Invoice**Customer:** Dixie Carriers

EPA File No: R6JZ010001000312

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000793.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: STYRENE

Work Type:

Bates Number: HER 05925

File Contents: 4638 - DC-370 - DIXIE CARRIERS / HERCULES - STYRENE

Barge Name: DC-372

Barge Owner: Kirby

Current Barge Name: KIRBY 10027

USCG Doc No: 609219

USCG File Name: KIRBY 10027 [DC 372].pdf

Barge Notes:

Hercules Job No: 4549**Date: 2/28/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000275

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000756.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: BENZENE

Work Type:

Bates Number: HER 05187

File Contents: 4549 - DC-372 - DIXIE CARRIERS / HERCULES - BENZENE

Hercules Job No: 4552**Date: 2/28/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000278

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000759.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals:

Work Type: MAINTENANCE

Bates Number: HER 05259

File Contents: 4552 - DC-372 - DIXIE CARRIERS / HERCULES - MAINTENANCE ON BARGE ENGINE

Barge Name: DC-374

Barge Owner: Kirby

Current Barge Name: KIRBY 10029

USCG Doc No: 609221

USCG File Name: KIRBY 10029 [DC 374].pdf

Barge Notes:

Hercules Job No: 4591**Date: 3/23/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000294

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000775.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: STYRENE

Work Type:

Bates Number: HER 05584

File Contents: 4591 - DC-374 - DIXIE CARRIERS / HERCULES - STYRENE

Barge Name: DC-398

Barge Owner: Kirby

Current Barge Name: KIRBY 7501

USCG Doc No: 625974

USCG File Name: KIRBY 7501 [DC 398].pdf

Barge Notes:

Hercules Job No: 5207**Date: 9/30/1996****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000179

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000279.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals:

Work Type: STRIP

Bates Number: HER 03475

File Contents: 9 - 5207 - DC-398 - DIXIE CARRIERS / HERCULES - SET UP EQUIPMENT FOR STRIP ONLY.

Barge Name: DMI-1121

Barge Owner: Kirby

Current Barge Name: KIRBY 11503

USCG Doc No: 962028

USCG File Name: KIRBY 11503 [DMI 1121].pdf

Barge Notes:

Hercules Job No: 4412**Date: 10/31/1994****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000221

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000705.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: ETHYL BENZENE

Work Type: STRIP, BLOW

Bates Number: HER 04075

File Contents: 4412 - DMT-1121 - DIXIE CARRIERS / HERCULES - ETHYL BENZENE

Barge Name: DXE-1106

Barge Owner: Kirby

Current Barge Name: Unknown

USCG Doc No: Unknown

USCG File Name:

Barge Notes: *DXE prefix is identified as a Kirby owned vessel. Assume to be Dixie Carriers, acquired by Kirby.***Hercules Job No: 4707****Date: 6/30/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000121

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000221.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: METHANOL

Work Type:

Bates Number: HER 02590

File Contents: 4707 - DXE-1106 - DIXIE CARRIERS / HERCULES - METHANOL (METHYL ALCOHOL WOOD ALCOHOL)

Hercules Job No: 4762**Date: 7/31/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000100

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000200.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: BENZENE

Work Type:

Bates Number: HER 02224

File Contents: 4762 - DXE-1106 - DIXIE CARRIERS / HERCULES - BENZENE

Barge Name: DXE-1110

Barge Owner: Kirby

Current Barge Name: Unknown

USCG Doc No: Unknown

USCG File Name:

Barge Notes: *DXE prefix is identified as a Kirby owned vessel. Assume to be Dixie Carriers, acquired by Kirby.***Hercules Job No: 4580****Date: 3/23/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000288

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000769.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: METHANOL

Work Type: STRIP, BLOW

Bates Number: HER 05443

File Contents: 4580 - DXE-1110 - DIXIE CARRIERS / HERCULES - METHANOL (METHYL ALCOHOL)

Barge Name: DXE-1115

Barge Owner: Kirby

Current Barge Name: Unknown

USCG Doc No: Unknown

USCG File Name:

Barge Notes: *DXE prefix is identified as a Kirby owned vessel. Assume to be Dixie Carriers, acquired by Kirby.***Hercules Job No: 4573****Date: 3/23/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000285

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000766.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: METHANOL

Work Type:

Bates Number: HER 05390

File Contents: 4573 - DXE-1115 - DIXIE CARRIERS / HERCULES - METHANOL (METHYL ALCOHOL)

Hercules Job No: 4584**Date: 4/18/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000290

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000771.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: PROPANOL

Work Type: STRIP, BLOW

Bates Number: HER 05484

File Contents: 4584 - DXE-1115 - DIXIE CARRIERS / HERCULES - N - PROPANOL

Barge Name: DXE-1116

Barge Owner: Kirby

Current Barge Name: KIRBY 11500

USCG Doc No: 962023

USCG File Name: KIRBY 11500 [DXE 1116].pdf

Barge Notes:

Hercules Job No: 4520**Date: 2/14/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000266

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000747.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: ETHYL BENZENE

Work Type:

Bates Number: HER 05054

File Contents: 4520 - DXE-1116 - DIXIE CARRIERS / HERCULES - ETHYL BENZENE (ETHYL BENZOL)

Barge Name: DXE-1118

Barge Owner: Kirby

Current Barge Name: KIRBY 11509

USCG Doc No: 962025

USCG File Name: KIRBY 11509 [DXE 1118].pdf

Barge Notes:

Hercules Job No: 4581

Date: 3/23/1995

Documents: Job Files, includes Invoice

Customer: Dixie Carriers

EPA File No: R6JZ010001000289

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000770.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: STYRENE

Work Type:

Bates Number: HER 05465

File Contents: *4581 - DXE-1118 - DIXIE CARRIERS / HERCULES - STYRENE*

Barge Name: DXE-1123

Barge Owner: Kirby

Current Barge Name: KIRBY 11505

USCG Doc No: 962030

USCG File Name: KIRBY 11505 [DXE 1123].pdf

Barge Notes:

Hercules Job No: 4470**Date: 12/29/1994****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000225

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000709.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: METHANOL

Work Type: STRIP, BLOW

Bates Number: HER 04131

File Contents: 4470 - DXE-1123 - DIXIE CARRIERS / HERCULES - METHANOL (METHYL ALCOHOL, WOOD ALCOHOL)

Hercules Job No: 4647**Date: 5/1/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000127

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000659.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: METHANOL

Work Type: STRIP

Bates Number: HER 02797

File Contents: 4647 - DC-1123 - DIXIE CARRIERS / HERCULES - METHANOL (METHYL ALCOHOL, WOOD ALCOHOL)

Customer: Dixie Carriers

EPA File No: R6JZ010001000132

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000654.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: METHANOL

Work Type: STRIP

Bates Number: HER 02694

File Contents: 4647 - DXE-1123 - DIXIE CARRIERS / HERCULES - METHANOL (METHYL ALCOHOL, WOOD ALCOHOL)

Barge Name: DXE-233

Barge Owner: Kirby

Current Barge Name: KIRBY 23301

USCG Doc No: 536268

USCG File Name: KIRBY 23301 [DXE 233 DC].pdf

Barge Notes:

Hercules Job No: 4619**Date: 5/31/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000304

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000785.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: STYRENE

Work Type:

Bates Number: HER 05751

File Contents: 4619 - DXE-233 - DIXIE CARRIERS / HERCULES - STYRENE

Barge Name: DXE-237

Barge Owner: Kirby

Current Barge Name: KIRBY 23000 B

USCG Doc No: 536743

USCG File Name: KIRBY 23000 B [DXE 237 BDC].pdf

Barge Notes:

Hercules Job No: 4751**Date: 7/28/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000096

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000196.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: STYRENE MONOMER

Work Type:

Bates Number: HER 02162

File Contents: 4751 - DXE-237 - DIXIE CARRIERS / HERCULES - STYRENE MONOMER

Barge Name: DXE-2805

Barge Owner: Kirby

Current Barge Name: KIRBY 28005 B

USCG Doc No: 600338

USCG File Name: KIRBY 28005 B [DXE 2805B].pdf

Barge Notes:

Hercules Job No: 4792**Date: 8/29/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000070

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000170.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: PYROLYSIS GASOLINE

Work Type:

Bates Number: HER 01800

File Contents: 4792 - DXE-2805 - DIXIE CARRIERS / HERCULES - PY GAS (PYROLYSIS GASOLINE)

Barge Name: DXE-2907

Barge Owner: Kirby

Current Barge Name: KIRBY 28306

USCG Doc No: 972841

USCG File Name: KIRBY 28306 [DXE 2907].pdf

Barge Notes:

Hercules Job No: 4579

Date: 3/23/1995

Documents: Job Files, includes Invoice

Customer: Dixie Carriers

EPA File No: R6JZ010001000287

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000768.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: TOULENE / BENZENE MIXTURE (BTX)

Work Type:

Bates Number: HER 05428

File Contents: *4579 - DXE-2907 - DIXIE CARRIERS / HERCULES - TOLUENE / BENZENE MIXTURE (BTX)*

Barge Name: ETT-110

Barge Owner: Kirby

Current Barge Name: KIRBY 10307

USCG Doc No: 518613

USCG File Name: KIRBY 10307 [ETT 110].pdf

Barge Notes:

Hercules Job No: 4309**Date:** 7/14/1994**Documents:** Job Files, includes Invoice**Customer:** BASF

EPA File No: R6JZ010001000196

Address: 607 Copper Road, Freeport, TX 77541-

PDF File: 8000680.pdf

Address Notes:

Cargo/Chemicals: CYCLOHEXANE

Work Type: STRIP, BLOW

Bates Number: HER 03685

File Contents: 4309 - ETT-110 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 4324**Date:** 7/31/1994**Documents:** Job Files, includes Invoice**Customer:** BASF

EPA File No: R6JZ010001000197

Address: 607 Copper Road, Freeport, TX 77541-

PDF File: 8000681.pdf

Address Notes:

Cargo/Chemicals: CYCLOHEXANE

Work Type: STRIP, BLOW

Bates Number: HER 03702

File Contents: 4324 - ETT-110 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 4363**Date:** 9/28/1994**Documents:** Job Files, includes Invoice**Customer:** BASF

EPA File No: R6JZ010001000205

Address: 607 Copper Road, Freeport, TX 77541-

PDF File: 8000689.pdf

Address Notes:

Cargo/Chemicals:

Work Type: MAINTENANCE

Bates Number: HER 03849

File Contents: 4363 - ETT-110 - BASF / HERCULES - MAINTENANCE ON BALLAST

Hercules Job No: 4369**Date:** 9/28/1994**Documents:** Job Files, includes Invoice**Customer:** BASF

EPA File No: R6JZ010001000207

Address: 607 Copper Road, Freeport, TX 77541-

PDF File: 8000691.pdf

Address Notes:

Cargo/Chemicals:

Work Type: MAINTENANCE

Bates Number: HER 00000

File Contents: 4369 - ETT-110 - BASF / HERCULES - MAINTENANCE ON BALLAST

Hercules Job No: 4398 **Date:** 10/19/1994 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000214
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000698.pdf
Address Notes:
Cargo/Chemicals:
Work Type: MAINTENANCE Bates Number: HER 03956
File Contents: 4398 - ETT-110 - BASF / HERCULES - MAINTENANCE ON BALLAST

Hercules Job No: 4503 **Date:** 1/30/1995 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000257
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000738.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: STRIP, BLOW Bates Number: HER 04868
File Contents: 4503 - ETT-110 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 4558 **Date:** 3/4/1995 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000280
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000761.pdf
Address Notes:
Cargo/Chemicals: BUTANOL
Work Type: Bates Number: HER 05284
File Contents: 4558 - ETT-110 - BASF / HERCULES - N - BUTANOL

Hercules Job No: 4643 **Date:** 4/28/1995 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000316
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000797.pdf
Address Notes:
Cargo/Chemicals:
Work Type: MAINTENANCE Bates Number: HER 06016
File Contents: 4643 - ETT-110 - BASF / HERCULES - MAINTENANCE ON BALLAST

Hercules Job No: 4694 **Date:** 6/6/1995 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000319
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000799.pdf
Address Notes:
Cargo/Chemicals: BUTANOL
Work Type: Bates Number: HER 06044
File Contents: 4694 - ETT-110 - BASF / HERCULES - N - BUTANOL

Hercules Job No: 4700 **Date:** 6/15/1995 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000320
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000800.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANOL (Anolon-Cyclohanone/Cyclohexanol mix)
Work Type: STRIP, BLOW, HOT WATER WASH **Bates Number:** HER 06059
File Contents: 4700 - ETT-110 - BASF / HERCULES - ANOLON (CYCLOHEXANONE / CYCLOHEXANOL)

Hercules Job No: 4852A **Date:** 9/30/1995 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000334
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000809.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: **Bates Number:** HER 06242
File Contents: 4852A - ETT-110 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 4889 **Date:** 10/25/1995 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000339
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000814.pdf
Address Notes:
Cargo/Chemicals:
Work Type: MAINTENANCE **Bates Number:** HER 06307
File Contents: 4889 - ETT-110 - BASF / HERCULES - MAINTENANCE ON BALLAST

Hercules Job No: 5004 **Date:** 4/3/1996 **Documents:** Job Files
Customer: BASF EPA File No: R6JZ010001000014
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000114.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: Not Apparent **Bates Number:** HER 00347
File Contents: 5004 - ETT-110 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 5015 **Date:** 4/30/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000013
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000113.pdf
Address Notes:
Cargo/Chemicals: None Listed
Work Type: STRIP **Bates Number:** HER 00337
File Contents: 5004 / 15 - ETT-110 - BASF / HERCULES - NO PRODUCT LISTED

Hercules Job No: 5044 **Date:** 5/31/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000022
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000122.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: Bates Number: HER 00520
File Contents: 5044 - ETT-110 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 5208 **Date:** 9/25/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000045
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000145.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: Bates Number: HER 01142
File Contents: 9 - 5208 - ETT-110 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 5247 **Date:** 10/16/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000051
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000151.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: Bates Number: HER 01286
File Contents: 10 - 5247 - ETT-110 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: u/k **Date:** 11/30/1996 **Documents:** Job-Related Inspection Reports
Customer: BASF EPA File No: R6JZ010001000347
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000447.pdf
Address Notes:
Cargo/Chemicals:
Work Type: Bates Number: HER 00000
File Contents: ETT-110 - INCHCAPE TESTING SERVICES VISUAL TANK INSPECTION REPORT (30 - NOV - 96)

Customer: BASF EPA File No: R6JZ010001000390
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000490.pdf
Address Notes:
Cargo/Chemicals: BUTANOL
Work Type: Bates Number: HER 00000
File Contents: ETT-110 - BASF / HERCULES - BARGE CLEANING REPORT: N - BUTANOL (INSPECTED 09 - FEB - 97)

Customer: BASF

EPA File No: R6JZ010001000391

Address: 607 Copper Road, Freeport, TX 77541-

PDF File: 8000491.pdf

Address Notes:

Cargo/Chemicals:

Work Type:

Bates Number: HER 00000

File Contents: ETT-110 - INCHCAPE TESTING SERVICES VISUAL TANK INSPECTION REPORT (09 - FEB - 97)

Barge Name: ETT-112

Barge Owner: Kirby

Current Barge Name: Unknown

USCG Doc No: D530992

USCG File Name:

Barge Notes: *Formerly owned by Sabine Transportation Company [8000454.pdf] Four of six vessels with ETT***Hercules Job No: 4342****Date: 8/31/1994****Documents: Job Files, includes Invoice****Customer: BASF**

EPA File No: R6JZ010001000199

Address: 607 Copper Road, Freeport, TX 77541-

PDF File: 8000683.pdf

Address Notes:

Cargo/Chemicals: CYCLOHEXANE

Work Type: STRIP, BLOW

Bates Number: HER 03744

File Contents: 4342 - ETT-112 - BASF / HERCULES - CYCLOHEXANE AND SPRAY PAINT (GREEN)

Hercules Job No: 4372**Date: 10/10/1994****Documents: Job Files****Customer: BASF**

EPA File No: R6JZ010001000208

Address: 607 Copper Road, Freeport, TX 77541-

PDF File: 8000692.pdf

Address Notes:

Cargo/Chemicals:

Work Type: MAINTENANCE

Bates Number: HER 03873

File Contents: 4372 - ETT-112 - BASF / HERCULES - MAINTENANCE ON BALLAST

Hercules Job No: 4435**Date: 11/28/1994****Documents: Job Files, includes Invoice****Customer: BASF**

EPA File No: R6JZ010001000219

Address: 607 Copper Road, Freeport, TX 77541-

PDF File: 8000703.pdf

Address Notes:

Cargo/Chemicals: CYCLOHEXANE

Work Type: STRIP, BLOW

Bates Number: HER 04022

File Contents: 4435 - ETT-112 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 4439**Date: 12/6/1994****Documents: Job Files, includes Invoice****Customer: BASF**

EPA File No: R6JZ010001000220

Address: 607 Copper Road, Freeport, TX 77541-

PDF File: 8000704.pdf

Address Notes:

Cargo/Chemicals: CYCLOHEXANE

Work Type: STRIP, NITROGEN PURGE

Bates Number: HER 04048

File Contents: 4439 - ETT-112 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 4476 **Date:** 1/9/1995 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000228
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000712.pdf
Address Notes:
Cargo/Chemicals: BUTANOL
Work Type: STRIP, HOT WATER WASH **Bates Number:** HER 04183
File Contents: 4476 - ETT-112 - BASF / HERCULES - N - BUTANOL

Hercules Job No: 4501 **Date:** 1/26/1995 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000124
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000651.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: STRIP **Bates Number:** HER 02640
File Contents: 4501 - ETT-112 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 4621 **Date:** 4/11/1995 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000306
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000787.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: **Bates Number:** HER 05791
File Contents: 4621 - ETT-112 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 4910 **Date:** 11/21/1995 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000342
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000816.pdf
Address Notes:
Cargo/Chemicals:
Work Type: MAINTENANCE **Bates Number:** HER 06347
File Contents: 4910 - ETT-112 - BASF / HERCULES - MAINTENANCE ON BALLAST

Hercules Job No: 5008 **Date:** 4/30/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000012
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000112.pdf
Address Notes:
Cargo/Chemicals: CAPROLACTAM
Work Type: STRIP, COLD WATER WASH **Bates Number:** HER 00320
File Contents: 5008 - ETT-112 - BASF / HERCULES - E - CAPROLACTAM

Hercules Job No: 5017 **Date:** 4/30/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000015
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000115.pdf
Address Notes:
Cargo/Chemicals: CAPROLACTAM
Work Type: STRIP, COLD & HOT WATER WASH Bates Number: HER 00381
File Contents: 5017 - ETT-112 - BASF / HERCULES - E - CAPROLACTAM

Hercules Job No: 5022 **Date:** 4/30/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000017
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000117.pdf
Address Notes:
Cargo/Chemicals: BUTANOL
Work Type: Bates Number: HER 00396
File Contents: 5022 - ETT-112 - BASF / HERCULES - N - BUTANOL

Hercules Job No: 5035 **Date:** 4/30/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000019
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000119.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: Bates Number: HER 00434
File Contents: 5035 - ETT-112 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 5040 **Date:** 5/31/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000020
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000120.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: Bates Number: HER 00480
File Contents: 5040 - ETT-112 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 5075 **Date:** 6/14/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000030
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000130.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: Bates Number: HER 00707
File Contents: 5075 - ETT-112 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 5135 **Date:** 7/31/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000040
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000140.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: Bates Number: HER 00979
File Contents: 7 - 5135 - ETT-112 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 5144 **Date:** 8/7/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000041
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000141.pdf
Address Notes:
Cargo/Chemicals: BUTANOL
Work Type: Bates Number: HER 01032
File Contents: 7 - 5144 - ETT-112 - BASF / HERCULES - N - BUTANOL

Hercules Job No: 5176 **Date:** 9/25/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000046
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000146.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANOL
Work Type: EQPT SETUP, PUMP, MAINTENANCE Bates Number: HER 01169
File Contents: 8 - 5176 - ETT-112 - BASF / HERCULES - ANOLON (CYCLOHEXANONE / CYCLOHEXANOL)

Hercules Job No: 5327 **Date:** 12/10/1996 **Documents:** Job Files
Customer: BASF EPA File No: R6JZ010001000353
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000453.pdf
Address Notes:
Cargo/Chemicals: BUTANOL
Work Type: Bates Number: HER 00000
File Contents: 5327 - ETT-112 - BASF / HERCULES - BARGE CLEANING REPORT: N - BUTANOL (INSPECTED 10 - DEC - 96)

Customer: BASF
Address: 607 Copper Road, Freeport, TX 77541-
Address Notes:
Cargo/Chemicals: BUTANOL
Work Type: Bates Number: HER 00000
File Contents: 5327 - ETT-112 - BASF / HERCULES - BARGE CLEANING REPORT: N - BUTANOL
(INSPECTED 10 - DEC - 96)

Hercules Job No: 5359 **Date:** 1/10/1997 **Documents:** Job Files
Customer: BASF EPA File No: R6JZ010001000387
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000487.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: Bates Number: HER 00000
File Contents: 5359 - ETT-112 - BASF / HERCULES - BARGE CLEANING REPORT: N - BUTANOL
(INSPECTED 10 - JAN - 97)

Hercules Job No: 5431 **Date:** 3/6/1997 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000376
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000476.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: Bates Number: HER 00000
File Contents: 3 - 5431 - ETT-112 - BASF / HERCULES - INVOICE #: 3797

Hercules Job No: 5488 **Date:** 4/21/1997 **Documents:** Job-Related Inspection Reports
Customer: BASF EPA File No: R6JZ010001000411
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000511.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: Bates Number: HER 00000
File Contents: 4 - 5488 - ETT-112 - BARGE CLEANING REPORT: NORMAL BUTANOL (INSPECTED 21-
APR - 97)

Customer: BASF EPA File No: R6JZ010001000365
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000465.pdf
Address Notes:
Cargo/Chemicals:
Work Type: STRIP Bates Number: HER 00000
File Contents: 4 - 5488 - ETT-112 - BASF / HERCULES - INVOICE #: 3853

Hercules Job No: 5497 **Date:** 4/27/1997 **Documents:** Job Files
Customer: BASF EPA File No: R6JZ010001000368
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000468.pdf
Address Notes:
Cargo/Chemicals:
Work Type: Bates Number: HER 00000
File Contents: 4 - 5497 - ETT-112 - BASF / HERCULES - MARINE REPAIR ORDER: 4 - 5497

Hercules Job No: u/k **Date:** 1/11/1996 **Documents:** Job-Related Inspection Reports
Customer: BASF EPA File No: R6JZ010001000354
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000454.pdf
Address Notes:
Cargo/Chemicals:
Work Type: Bates Number: HER 00000
File Contents: ETT-112 - BASF - CERTIFICATE OF INSPECTION (EXPIRES 11 - JAN - 98)

Customer: BASF EPA File No: R6JZ010001000384
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000484.pdf
Address Notes:
Cargo/Chemicals:
Work Type: Bates Number: HER 00000
File Contents: ETT-112 - INCHCAPE TESTING SERVICES VISUAL TANK INSPECTION REPORT (10 - DEC - 96)

Customer: BASF EPA File No: R6JZ010001000388
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000488.pdf
Address Notes:
Cargo/Chemicals:
Work Type: Bates Number: HER 00000
File Contents: ETT-112 - INCHCAPE TESTING SERVICES VISUAL TANK INSPECTION REPORT (10 - JAN - 97)

Customer: BASF EPA File No: R6JZ010001000375
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000475.pdf
Address Notes:
Cargo/Chemicals: BUTANOL
Work Type: Bates Number: HER 00000
File Contents: ETT-112 - HAZARD COMMUNICATION STANDARD: N - BUTANOL

Customer: BASF EPA File No: R6JZ010001000402
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000502.pdf
Address Notes:
Cargo/Chemicals:
Work Type: Bates Number: HER 00000
File Contents: ETT-112 - INCHCAPE TESTING SERVICES VISUAL TANK INSPECTION REPORT (06 -
MAR - 97)

Customer: BASF EPA File No: R6JZ010001000401
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000501.pdf
Address Notes:
Cargo/Chemicals: BUTANOL
Work Type: Bates Number: HER 00000
File Contents: ETT-112 - BASF / HERCULES - BARGE CLEANING REPORT: N - BUTANOL (INSPECTED
06 - MAR - 97)

Customer: BASF EPA File No: R6JZ010001000412
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000512.pdf
Address Notes:
Cargo/Chemicals:
Work Type: Bates Number: HER 00000
File Contents: ETT-112 - INCHCAPE TESTING SERVICES VISUAL TANK INSPECTION REPORT (21 -
APR - 97)

Customer: BASF EPA File No: R6JZ010001000369
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000469.pdf
Address Notes:
Cargo/Chemicals:
Work Type: Bates Number: HER 00000
File Contents: ETT-112 - BASF / HERCULES - MARINE REPAIR ORDER: (BLANK)

Customer: BASF EPA File No: R6JZ010001000418
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000518.pdf
Address Notes:
Cargo/Chemicals:
Work Type: Bates Number: HER 00000
File Contents: ETT-112 - INCHCAPE TESTING SERVICES VISUAL TANK INSPECTION REPORT (02 -
MAY - 97)

Customer: BASF

EPA File No: R6JZ010001000417

Address: 607 Copper Road, Freeport, TX 77541-

PDF File: 8000517.pdf

Address Notes:

Cargo/Chemicals: CYCLOHEXANE

Work Type:

Bates Number: HER 00000

**File Contents: ETT-112 - BASF / HERCULES - BARGE CLEANING REPORT: N - BUTANOL
CYCLOHEXANE (INSPECTED 12 - MAY - 97)**

Barge Name: ETT-113

Barge Owner: Kirby

Current Barge Name: KIRBY 10032

USCG Doc No: 530993

USCG File Name: KIRBY 10032 [ETT 113].pdf

Barge Notes:

Hercules Job No: 4301**Date: 6/23/1994****Documents: Job Files, includes Invoice****Customer: BASF**

EPA File No: R6JZ010001000194

Address: 607 Copper Road, Freeport, TX 77541-

PDF File: 8000678.pdf

Address Notes:

Cargo/Chemicals: n/a

Work Type: MAINTENANCE

Bates Number: HER 03668

File Contents: 4301 - ETT-113 - BASF / HERCULES - MAINTENANCE ON BALLAST

Hercules Job No: 4359**Date: 9/28/1994****Documents: Job Files, includes Invoice****Customer: BASF**

EPA File No: R6JZ010001000203

Address: 607 Copper Road, Freeport, TX 77541-

PDF File: 8000687.pdf

Address Notes:

Cargo/Chemicals:

Work Type: MAINTENANCE

Bates Number: HER 03824

File Contents: 4359 - ETT-113 - BASF / HERCULES - MAINTENANCE ON BALLAST

Hercules Job No: 4375**Date: 10/10/1994****Documents: Job Files, includes Invoice****Customer: BASF**

EPA File No: R6JZ010001000211

Address: 607 Copper Road, Freeport, TX 77541-

PDF File: 8000695.pdf

Address Notes:

Cargo/Chemicals: CAPROLACTAM

Work Type: STRIP. HOT WATER WASH

Bates Number: HER 03897

File Contents: 4375 - ETT-113 - BASF / HERCULES - E - CAPROLACTAM

Hercules Job No: 4522**Date: 2/13/1995****Documents: Job Files, includes Invoice****Customer: BASF**

EPA File No: R6JZ010001000267

Address: 607 Copper Road, Freeport, TX 77541-

PDF File: 8000748.pdf

Address Notes:

Cargo/Chemicals: CYCLOHEXANE

Work Type:

Bates Number: HER 05069

File Contents: 4522 - ETT-113 - BASF / HERCULES - CLEAN - OUT (CYCLOHEXANE) LINES WITH NITROGEN

Hercules Job No: 4645 **Date:** 5/1/1995 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000317
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000798.pdf
Address Notes:
Cargo/Chemicals: CAPROLACTAM
Work Type: STRIP, COLD WATER WASH **Bates Number:** HER 06026
File Contents: 4645 - ETT-113 - BASF / HERCULES - E - CAPROLACTAM

Hercules Job No: 4802 **Date:** 8/30/1995 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000326
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000426.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: **Bates Number:** HER 06140
File Contents: 4802 - ETT-113 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 4810 **Date:** 8/31/1995 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000327
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000803.pdf
Address Notes:
Cargo/Chemicals:
Work Type: MAINTENANCE **Bates Number:** HER 06166
File Contents: 4810 - ETT-113 - BASF / HERCULES - MAINTENANCE ON PIPELINE

Hercules Job No: 4829 **Date:** 9/14/1995 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000329
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000804.pdf
Address Notes:
Cargo/Chemicals:
Work Type: MAINTENANCE **Bates Number:** HER 06199
File Contents: 4829 - ETT-113 - BASF / HERCULES - MAINTENANCE ON BALLAST

Hercules Job No: 4831 **Date:** 9/14/1995 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000330
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000805.pdf
Address Notes:
Cargo/Chemicals:
Work Type: MAINTENANCE **Bates Number:** HER 06207
File Contents: 4831 - ETT-113 - BASF / HERCULES - MAINTENANCE ON BALLAST

Hercules Job No: 4853 **Date:** 9/30/1995 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000335
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000810.pdf
Address Notes:
Cargo/Chemicals:
Work Type: MAINTENANCE **Bates Number:** HER 06260
File Contents: 4853 - ETT-113 - BASF / HERCULES - MAINTENANCE ON BALLAST

Hercules Job No: 4862 **Date:** 10/12/1995 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000336
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000811.pdf
Address Notes:
Cargo/Chemicals:
Work Type: MAINTENANCE **Bates Number:** HER 06268
File Contents: 4862 - ETT-113 - BASF / HERCULES - MAINTENANCE ON BALLAST

Hercules Job No: 4879 **Date:** 10/31/1995 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000337
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000812.pdf
Address Notes:
Cargo/Chemicals: BUTANOL
Work Type: **Bates Number:** HER 06277
File Contents: 4879 - ETT-113 - BASF / HERCULES - N - BUTANOL

Hercules Job No: 4888 **Date:** 10/25/1995 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000338
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000813.pdf
Address Notes:
Cargo/Chemicals:
Work Type: MAINTENANCE **Bates Number:** HER 06291
File Contents: 4888 - ETT-113 - BASF / HERCULES - MAINTENANCE ON BALLAST, CARGO TANKS

Hercules Job No: 4900 **Date:** 11/9/1995 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000340
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000815.pdf
Address Notes:
Cargo/Chemicals:
Work Type: MAINTENANCE **Bates Number:** HER 06316
File Contents: 4900 - ETT-113 - BASF / HERCULES - MAINTENANCE ON BALLAST

Hercules Job No: 4921 **Date:** 12/18/1995 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000343
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000443.pdf
Address Notes:
Cargo/Chemicals: BUTANOL
Work Type: STRIP, HOT WATER WASH **Bates Number:** HER 06355
File Contents: 4921 - ETT-113 - BASF / HERCULES - N - BUTANOL

Hercules Job No: 4940-1 **Date:** 1/11/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000002
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000837.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: WELD **Bates Number:** HER 00015
File Contents: 4940-1 - ETT-113 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 4940-2 **Date:** 1/18/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000003
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000838.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: REPAIR **Bates Number:** HER 00029
File Contents: 4940-2 - ETT-113 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 4952 **Date:** 1/30/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000006
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000841.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: **Bates Number:** HER 00063
File Contents: 4952 - ETT-113 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 4995 **Date:** 4/1/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000011
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000111.pdf
Address Notes:
Cargo/Chemicals: BUTANOL
Work Type: **Bates Number:** HER 00303
File Contents: 4995 - ETT-113 - BASF / HERCULES - N - BUTANOL

Hercules Job No: 5035 **Date:** 5/31/1996 **Documents:** Job Files
Customer: BASF EPA File No: R6JZ010001000025
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000125.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: Bates Number: HER 00563
File Contents: 5053 - ETT-113 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 5052 **Date:** 5/31/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000024
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000124.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: Bates Number: HER 00551
File Contents: 5052 - ETT-113 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 5064 **Date:** 6/14/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000028
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000128.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANOL
Work Type: STRIP, BLOW, HOT CHEMICAL WASH Bates Number: HER 00666
File Contents: 5064 - ETT-113 - BASF / HERCULES - ANOLON (CYCLOHEXANONE CYCLOHEXANOL)

Hercules Job No: 5082 **Date:** 6/21/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000031
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000131.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: Bates Number: HER 00727
File Contents: 5082 - ETT-113 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 5085 **Date:** 6/30/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000033
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000133.pdf
Address Notes:
Cargo/Chemicals: BUTANOL
Work Type: Bates Number: HER 00798
File Contents: 5085 - ETT-113 - BASF / HERCULES - N - BUTANOL

Hercules Job No: 5104 **Date:** 6/30/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000055
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000155.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: Bates Number: HER 01450
File Contents: 5104 - ETT-113 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 5113 **Date:** 7/31/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000035
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000135.pdf
Address Notes:
Cargo/Chemicals: ETHYL HEXYL ALCOHOL
Work Type: Bates Number: HER 00843
File Contents: 7 - 5113 - ETT-113 - BASF / HERCULES - 2 - ETHYL HEXYL ALCOHOL (1 - HEXA

Hercules Job No: 5120 **Date:** 7/31/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000037
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000137.pdf
Address Notes:
Cargo/Chemicals: NITROGEN, BUTANOL PREPARATION
Work Type: Bates Number: HER 00899
File Contents: 7 - 5120 - ETT-113 - BASF / HERCULES - NITROGEN PAD FOR N - BUTANOL PREPARATION

Hercules Job No: 5125 **Date:** 7/31/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000038
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000138.pdf
Address Notes:
Cargo/Chemicals: BUTANOL
Work Type: Bates Number: HER 00942
File Contents: 7 - 5125 - ETT-113 - BASF / HERCULES - N - BUTANOL

Hercules Job No: 5184 **Date:** 9/25/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000047
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000147.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: Bates Number: HER 01199
File Contents: 9 - 5184 - ETT-113 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 5188 **Date:** 9/25/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000048
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000148.pdf
Address Notes:
Cargo/Chemicals: BUTANOL
Work Type: Bates Number: HER 01222
File Contents: 9 - 5188 - ETT-113 - BASF / HERCULES - N - BUTANOL

Hercules Job No: 5405 **Date:** 2/22/1997 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000373
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000473.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: Bates Number: HER 00000
File Contents: 2 - 5405 - ETT-113 - BASF / HERCULES - INVOICE #: 3771

Hercules Job No: 5494 **Date:** 4/23/1997 **Documents:** Job Files
Customer: BASF EPA File No: R6JZ010001000366
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000466.pdf
Address Notes:
Cargo/Chemicals:
Work Type: STRIP, BLOW Bates Number: HER 00000
File Contents: 4 - 5494 - ETT-113 - BASF / HERCULES - MARINE REPAIR ORDER: 4 - 5494

Customer: BASF EPA File No: R6JZ010001000414
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000514.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: Bates Number: HER 00000
File Contents: 5494 - ETT-113 - BASF / HERCULES - BARGE CLEANING REPORT: N - BUTANOL
(INSPECTED 23 - APR - 97)

Hercules Job No: u/k **Date:** 2/22/1997 **Documents:** **Job-Related Inspection Reports**
Customer: BASF EPA File No: R6JZ010001000372
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000472.pdf
Address Notes:
Cargo/Chemicals: BUTANOL
Work Type: Bates Number: HER 00000
File Contents: *ETT-113 - HAZARD COMMUNICATION STANDARD: N - BUTANOL*

Customer: BASF EPA File No: R6JZ010001000397
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000497.pdf
Address Notes:
Cargo/Chemicals: BUTANOL
Work Type: Bates Number: HER 00000
File Contents: *ETT-113 - BASF / HERCULES - BARGE CLEANING REPORT: N - BUTANOL (INSPECTED 26 - FEB - 97)*

Customer: BASF EPA File No: R6JZ010001000398
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000498.pdf
Address Notes:
Cargo/Chemicals:
Work Type: Bates Number: HER 00000
File Contents: *ETT-113 - INCHCAPE TESTING SERVICES VISUAL TANK INSPECTION REPORT (26 - FEB - 97)*

Customer: BASF EPA File No: R6JZ010001000415
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000515.pdf
Address Notes:
Cargo/Chemicals:
Work Type: Bates Number: HER 00000
File Contents: *ETT-113 - INCHCAPE TESTING SERVICES VISUAL TANK INSPECTION REPORT (23 - APR - 97)*

Barge Name: ETT-114

Barge Owner: Kirby

Current Barge Name: KIRBY 10033

USCG Doc No: 530994

USCG File Name: KIRBY 10033 [ETT 114].pdf

Barge Notes:

Hercules Job No: 4299**Date: 6/23/1994****Documents: Job Files, includes Invoice****Customer: BASF**

EPA File No: R6JZ010001000193

Address: 607 Copper Road, Freeport, TX 77541-

PDF File: 8000677.pdf

Address Notes:

Cargo/Chemicals: n/a

Work Type: MAINTENANCE

Bates Number: HER 03660

File Contents: 4299 - ETT-114 - BASF / HERCULES - MAINTENANCE ON BALLAST

Hercules Job No: 4304**Date: 6/28/1994****Documents: Job Files, includes Invoice****Customer: BASF**

EPA File No: R6JZ010001000195

Address: 607 Copper Road, Freeport, TX 77541-

PDF File: 8000679.pdf

Address Notes:

Cargo/Chemicals: n/a

Work Type: MAINTENANCE

Bates Number: HER 03677

File Contents: 4304 - ETT-114 - BASF / HERCULES - MAINTENANCE ON BALLAST

Hercules Job No: 4334**Date: 8/22/1994****Documents: Job Files, includes Invoice****Customer: BASF**

EPA File No: R6JZ010001000198

Address: 607 Copper Road, Freeport, TX 77541-

PDF File: 8000682.pdf

Address Notes:

Cargo/Chemicals: BUTANOL

Work Type: STRIP, BLOW

Bates Number: HER 03726

File Contents: 4334 - ETT-114 - BASF / HERCULES - N - BUTANOL

Hercules Job No: 4343**Date: 8/31/1994****Documents: Job Files, includes Invoice****Customer: BASF**

EPA File No: R6JZ010001000200

Address: 607 Copper Road, Freeport, TX 77541-

PDF File: 8000684.pdf

Address Notes:

Cargo/Chemicals: CYCLOHEXANE

Work Type: STRIP, BLOW, NITROGEN PURGE

Bates Number: HER 03777

File Contents: 4343 - ETT-114 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 4356 **Date:** 9/22/1994 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000201
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000685.pdf
Address Notes:
Cargo/Chemicals:
Work Type: MAINTENANCE **Bates Number:** HER 03808
File Contents: 4356 - ETT-114 - BASF / HERCULES - MAINTENANCE ON BALLAST

Hercules Job No: 4373 **Date:** 10/10/1994 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000209
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000693.pdf
Address Notes:
Cargo/Chemicals: BUTANOL
Work Type: MAINTENANCE **Bates Number:** HER 03881
File Contents: 4373 - ETT-114 - BASF / HERCULES - MAINTENANCE ON WING VOIDS

Hercules Job No: 4385 **Date:** 10/19/1994 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000212
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000696.pdf
Address Notes:
Cargo/Chemicals: BUTANOL
Work Type: STRIP, HOT WATER WASH **Bates Number:** HER 03913
File Contents: 4385 - ETT-114 - BASF / HERCULES - N - BUTANOL

Hercules Job No: 4392 **Date:** 11/9/1994 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000213
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000697.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: STRIP, BLOW, NITROGEN PURGE **Bates Number:** HER 03932
File Contents: 4392 - ETT-114 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 4425 **Date:** 11/11/1994 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000216
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000700.pdf
Address Notes:
Cargo/Chemicals: BUTANOL
Work Type: STRIP, HOT WATER WASH **Bates Number:** HER 03972
File Contents: 4425 - ETT-114 - BASF / HERCULES - N - BUTANOL

Hercules Job No: 4427 **Date:** 11/18/1994 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000217
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000701.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: STRIP, BLOW **Bates Number:** HER 03984
File Contents: 4427 - ETT-114 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 4434 **Date:** 11/28/1994 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000218
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000702.pdf
Address Notes:
Cargo/Chemicals: BUTANOL
Work Type: STRIP, HOT WATER WASH **Bates Number:** HER 04004
File Contents: 4434 - ETT-114 - BASF / HERCULES - N - BUTANOL

Hercules Job No: 4649 **Date:** 5/8/1995 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000313
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000794.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: STRIP, BLOW **Bates Number:** HER 05945
File Contents: 4649 - ETT-114 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 4712 **Date:** 6/30/1995 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000321
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000801.pdf
Address Notes:
Cargo/Chemicals:
Work Type: MAINTENANCE **Bates Number:** HER 06077
File Contents: 4712 - ETT-114 - BASF / HERCULES - MAINTENANCE ON BALLAST

Hercules Job No: 4722 **Date:** 6/30/1995 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000322
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000422.pdf
Address Notes:
Cargo/Chemicals: BUTANOL
Work Type: **Bates Number:** HER 06084
File Contents: 4722 - ETT-114 - BASF / HERCULES - N - BUTANOL

Hercules Job No: 4738 **Date:** 6/30/1995 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000324
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000424.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: Bates Number: HER 06112
File Contents: 4738 - ETT-114 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 4832 **Date:** 9/14/1995 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000331
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000806.pdf
Address Notes:
Cargo/Chemicals:
Work Type: MAINTENANCE Bates Number: HER 06215
File Contents: 4832 - ETT-114 - BASF / HERCULES - MAINTENANCE ON BALLAST

Hercules Job No: 4841 **Date:** 9/22/1995 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000333
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000808.pdf
Address Notes:
Cargo/Chemicals:
Work Type: MAINTENANCE Bates Number: HER 06233
File Contents: 4841 - ETT-114 - BASF / HERCULES - MAINTENANCE ON BALLAST

Hercules Job No: 4906A **Date:** 11/29/1995 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000341
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000441.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: Bates Number: HER 06324
File Contents: 4906A - ETT-114 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 4913 **Date:** 11/29/1995 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000344
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000444.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANOL
Work Type: STRIP, BLOW, HOT CHEMICAL WASH Bates Number: HER 06369
File Contents: 4913 - ETT-114 - BASF / HERCULES - ANOLON (CYCLOHEXANONE / CYCLOHEXANOL)

Hercules Job No: 4932 **Date:** 1/31/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000001
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000623.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: CLEANING Bates Number: HER 00001
File Contents: 4932 - ETT-114 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 4966 **Date:** 3/7/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000007
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000842.pdf
Address Notes:
Cargo/Chemicals: CAPROLACTAM
Work Type: STRIP, COLD WATER WASH Bates Number: HER 00117
File Contents: 4966 - ETT-114 - BASF / HERCULES - E - CAPROLACTAM

Hercules Job No: 4970 **Date:** 3/7/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000008
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000108.pdf
Address Notes:
Cargo/Chemicals: BUTANOL, N. HEXANE
Work Type: STRIP Bates Number: HER 00174
File Contents: 4970 - ETT-114 - BASF / HERCULES - N - BUTANOL

Hercules Job No: 4972 **Date:** 3/7/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000009
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000109.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: Bates Number: HER 00189
File Contents: 4972 - ETT-114 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 4990 **Date:** 3/15/1996 **Documents:** Job Files
Customer: BASF EPA File No: R6JZ010001000010
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000110.pdf
Address Notes:
Cargo/Chemicals: BUTANOL
Work Type: Bates Number: HER 00206
File Contents: 4990 - ETT-114 - BASF / HERCULES - N - BUTANOL

Hercules Job No: 5021 **Date:** 4/30/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000016
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000116.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: Bates Number: HER 00381
File Contents: 5021 - ETT-114 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 5029 **Date:** 4/30/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000018
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000843.pdf
Address Notes:
Cargo/Chemicals: CAPROLACTAM
Work Type: STRIP, BLOW, HOT WATER WASH Bates Number: HER 00411
File Contents: 5029 - ETT-114 - BASF / HERCULES - E - CAPROLACTAM

Hercules Job No: 5041 **Date:** 5/31/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000021
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000121.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: Bates Number: HER 00466
File Contents: 5041 - ETT-114 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 5047 **Date:** 5/31/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000023
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000123.pdf
Address Notes:
Cargo/Chemicals: BUTANOL
Work Type: Bates Number: HER 00535
File Contents: 5047 - ETT-114 - BASF / HERCULES - N - BUTANOL

Hercules Job No: 5054 **Date:** 5/31/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000026
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000126.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: Bates Number: HER 00578
File Contents: 5054 - ETT-114 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 5083 **Date:** 6/14/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000032
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000624.pdf
Address Notes:
Cargo/Chemicals: CAPROLACTAM
Work Type: STRIP, BLOW, COLD & HOT WATER WASH **Bates Number:** HER 00782
File Contents: 5083 - ETT-114 - BASF / HERCULES - E - CAPROLACTAM

Hercules Job No: 5089 **Date:** 6/30/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000034
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000134.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANOL
Work Type: STRIP, BLOW, HOT CHEMICAL WASH **Bates Number:** HER 00822
File Contents: 5089 - ETT-114 - BASF / HERCULES - ANOLON (CYCLOHEXANONE / CYCLOHEXANOL)

Hercules Job No: 5109 **Date:** 7/31/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000056
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000156.pdf
Address Notes:
Cargo/Chemicals: CAPROLACTAM
Work Type: STRIP, BLOW, COLD & HOT WATER WASH **Bates Number:** HER 01468
File Contents: 7 - 5109 - ETT-114 - BASF / HERCULES - E - CAPROLACTAM

Hercules Job No: 5163 **Date:** 8/29/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000043
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000143.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: **Bates Number:** HER 01072
File Contents: 8 - 5163 - ETT-114 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 5171 **Date:** 8/30/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000044
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000144.pdf
Address Notes:
Cargo/Chemicals: BUTANOL
Work Type: **Bates Number:** HER 01127
File Contents: 8 - 5171 - ETT-114 - BASF / HERCULES - N - BUTANOL

Hercules Job No: 5245 **Date:** 10/16/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000050
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000150.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: Bates Number: HER 01259
File Contents: 10 - 5245 - ETT-114 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 5430 **Date:** 3/6/1997 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000374
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000474.pdf
Address Notes:
Cargo/Chemicals:
Work Type: STRIP, BLOW Bates Number: HER 00000
File Contents: 3 - 5430 - ETT-114 - BASF / HERCULES - INVOICE #: 3796

Customer: BASF EPA File No: R6JZ010001000406
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000506.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: Bates Number: HER 00000
File Contents: 5430 - ETT-114 - BASF / HERCULES - BARGE CLEANING REPORT: N - BUTANOL
(INSPECTED 07 - MAR - 97)

Hercules Job No: u/k **Date:** 3/7/1997 **Documents:** Job-Related Inspection Reports
Customer: BASF EPA File No: R6JZ010001000407
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000507.pdf
Address Notes:
Cargo/Chemicals:
Work Type: Bates Number: HER 00000
File Contents: ETT-114 - INCHCAPE TESTING SERVICES VISUAL TANK INSPECTION REPORT (07 -
MAR - 97)

Barge Name: ETT-115

Barge Owner: Kirby

Current Barge Name: KIRBY 10034

USCG Doc No: 530995

USCG File Name: KIRBY 10034 [ETT 115].pdf

Barge Notes:

Hercules Job No: 4358**Date: 9/22/1994****Documents: Job Files, includes Invoice****Customer: BASF**

EPA File No: R6JZ010001000202

Address: 607 Copper Road, Freeport, TX 77541-

PDF File: 8000686.pdf

Address Notes:

Cargo/Chemicals:

Work Type: MAINTENANCE

Bates Number: HER 03816

File Contents: 4358 - ETT-115 - BASF / HERCULES - MAINTENANCE ON BALLAST

Hercules Job No: 4360**Date: 9/22/1994****Documents: Job Files, includes Invoice****Customer: BASF**

EPA File No: R6JZ010001000204

Address: 607 Copper Road, Freeport, TX 77541-

PDF File: 8000688.pdf

Address Notes:

Cargo/Chemicals:

Work Type: MAINTENANCE

Bates Number: HER 03841

File Contents: 4360 - ETT-115 - BASF / HERCULES - MAINTENANCE ON BALLAST

Hercules Job No: 4365**Date: 9/28/1994****Documents: Job Files, includes Invoice****Customer: BASF**

EPA File No: R6JZ010001000206

Address: 607 Copper Road, Freeport, TX 77541-

PDF File: 8000690.pdf

Address Notes:

Cargo/Chemicals:

Work Type: MAINTENANCE

Bates Number: HER 03857

File Contents: 4365 - ETT-115 - BASF / HERCULES - MAINTENANCE ON BALLAST

Hercules Job No: 4374**Date: 10/10/1994****Documents: Job Files, includes Invoice****Customer: BASF**

EPA File No: R6JZ010001000210

Address: 607 Copper Road, Freeport, TX 77541-

PDF File: 8000694.pdf

Address Notes:

Cargo/Chemicals:

Work Type: MAINTENANCE

Bates Number: HER 03889

File Contents: 4374 - ETT-115 - BASF / HERCULES - MAINTENANCE ON BALLAST

Hercules Job No: 4399 **Date:** 10/25/1994 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000215
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000699.pdf
Address Notes:
Cargo/Chemicals:
Work Type: MAINTENANCE **Bates Number:** HER 03964
File Contents: 4399 - ETT-115 - BASF / HERCULES - MAINTENANCE ON BALLAST

Hercules Job No: 4794 **Date:** 8/31/1995 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000325
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000425.pdf
Address Notes:
Cargo/Chemicals:
Work Type: MAINTENANCE **Bates Number:** HER 06133
File Contents: 4794 - ETT-115 - BASF / HERCULES - MAINTENANCE ON BALLAST

Hercules Job No: 4833 **Date:** 9/14/1995 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000332
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000807.pdf
Address Notes:
Cargo/Chemicals:
Work Type: MAINTENANCE **Bates Number:** HER 06224
File Contents: 4833 - ETT-115 - BASF / HERCULES - MAINTENANCE ON BALLAST

Hercules Job No: 4946 **Date:** 1/29/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000004
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000839.pdf
Address Notes:
Cargo/Chemicals: BUTANOL
Work Type: **Bates Number:** HER 00041
File Contents: 4946 - ETT-115 - BASF / HERCULES - N - BUTANOL

Hercules Job No: 4950 **Date:** 1/25/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000005
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000840.pdf
Address Notes:
Cargo/Chemicals:
Work Type: MAINTENANCE **Bates Number:** HER 00055
File Contents: 4950 - ETT-115 - BASF / HERCULES - MAINTENANCE ON BALLAST

Hercules Job No: 5057 **Date:** 5/31/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000027
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000127.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: Bates Number: HER 00603
File Contents: 5057 - ETT-115 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 5070 **Date:** 6/14/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000029
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000129.pdf
Address Notes:
Cargo/Chemicals: BUTANOL
Work Type: Bates Number: HER 00686
File Contents: 5070 - ETT-115 - BASF / HERCULES - N - BUTANOL

Hercules Job No: 5119 **Date:** 7/31/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000036
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000136.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: Bates Number: HER 00875
File Contents: 7 - 5119 - ETT-115 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 5130 **Date:** 7/31/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000039
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000139.pdf
Address Notes:
Cargo/Chemicals: CAPROLACTAM
Work Type: STRIP, BLOW, COLD & HOT WATER WASH Bates Number: HER 00959
File Contents: 7 - 5130 - ETT-115 - BASF / HERCULES - E - CAPROLACTAM

Hercules Job No: 5146 **Date:** 8/7/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000042
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000142.pdf
Address Notes:
Cargo/Chemicals: CAPROLACTAM
Work Type: STRIP, BLOW, COLD WATER WASH Bates Number: HER 01053
File Contents: 7 - 5146 - ETT-115 - BASF / HERCULES - E - CAPROLACTAM

Hercules Job No: 5240 **Date:** 10/16/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000049
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000149.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: Bates Number: HER 01238
File Contents: 10 - 5240 - ETT-115 - BASF / HERCULES - CYCLOHEXANE; Invoice# 3604, 10/16/96, Job # 5240.

Hercules Job No: 5262 **Date:** 10/29/1996 **Documents:** Job Files, includes Invoice
Customer: BASF EPA File No: R6JZ010001000186
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000286.pdf
Address Notes:
Cargo/Chemicals:
Work Type: Bates Number: HER 03545
File Contents: 10 - 5262 - ETT-115 - BASF / HERCULES - BALLAST WING TANK AND BOW RAK NO CHEMICAL IDENTIFIED.

Hercules Job No: 5265 **Date:** 10/29/1996 **Documents:** Job Files
Customer: BASF EPA File No: R6JZ010001000188
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000288.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: Bates Number: HER 03565
File Contents: 10 - 5265 - ETT-115 - BASF / HERCULES - CYCLOHEXANE

Hercules Job No: 5334 **Date:** 12/17/1996 **Documents:** Job Files
Customer: BASF EPA File No: R6JZ010001000357
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000457.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: Bates Number: HER 00000
File Contents: 5334 - ETT-115 - BASF - BARGE CLEANING REPORT: CYCLOHEXANE (INSPECTED 17 - DEC - 96)

Hercules Job No: 5402 **Date:** 2/18/1997 **Documents:** Job Files
Customer: BASF EPA File No: R6JZ010001000394
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000494.pdf
Address Notes:
Cargo/Chemicals: BUTANOL
Work Type: Bates Number: HER 00000
File Contents: 5402 - ETT-115 - BASF / HERCULES - BARGE CLEANING REPORT: N - BUTANOL
(INSPECTED 18 - FEB - 97)

Customer: BASF EPA File No: R6JZ010001000371
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000471.pdf
Address Notes:
Cargo/Chemicals:
Work Type: STRIP, BLOW Bates Number: HER 00000
File Contents: 2 - 5402 - ETT-115 - BASF / HERCULES - INVOICE #: 3768

Customer: BASF EPA File No: R6JZ010001000504
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000604.pdf
Address Notes:
Cargo/Chemicals: CYCLOHEXANE
Work Type: Bates Number: HER 00000
File Contents: HERCULES RECORD FOR ETT-115, JOB 5402

Customer: BASF EPA File No: R6JZ010001000370
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000470.pdf
Address Notes:
Cargo/Chemicals: BUTANOL
Work Type: Bates Number: HER 00000
File Contents: 5402 - ETT-115 - BASF / HERCULES - BARGE CLEANING REPORT: N - BUTANOL
(INSPECTED 18 - FEB - 97)

Hercules Job No: u/k **Date:** 12/17/1996 **Documents:** Job-Related Inspection Reports
Customer: BASF EPA File No: R6JZ010001000358
Address: 607 Copper Road, Freeport, TX 77541- PDF File: 8000458.pdf
Address Notes:
Cargo/Chemicals:
Work Type: Bates Number: HER 00000
File Contents: ETT-115 - INCHCAPE TESTING SERVICES VISUAL TANK INSPECTION REPORT (17 -
DEC - 96)

Customer: BASF

EPA File No: R6JZ010001000395

Address: 607 Copper Road, Freeport, TX 77541-

PDF File: 8000495.pdf

Address Notes:

Cargo/Chemicals:

Work Type:

Bates Number: HER 00000

File Contents: *ETT-115 - INCHCAPE TESTING SERVICES VISUAL TANK INSPECTION REPORT (18 - FEB - 97)*

Customer: BASF

EPA File No: R6JZ010001000360

Address: 607 Copper Road, Freeport, TX 77541-

PDF File: 8000460.pdf

Address Notes:

Cargo/Chemicals:

Work Type:

Bates Number: HER 00000

File Contents: *ETT-115 - BASF - CERTIFICATE OF INSPECTION (EXPIRES 06 - MAR - 99)*

Barge Name: ETT-119

Barge Owner: Kirby

Current Barge Name:

USCG Doc No:

USCG File Name:

Barge Notes: *Four of six vessels with ETT prefix are Kirby vessels. Remaining two are not indicated. Assumed t*

Hercules Job No: 4625

Date: 4/10/1995

Documents: Job Files, includes Invoice

Customer: BASF

EPA File No: R6JZ010001000309

Address: 607 Copper Road, Freeport, TX 77541-

PDF File: 8000790.pdf

Address Notes:

Cargo/Chemicals: CYCLOHEXANE

Work Type:

Bates Number: HER 05860

File Contents: *4625 - ETT-119 - BASF / HERCULES - CYCLOHEXANE*

Barge Name: HOLLY-1036

Barge Owner: Kirby

Current Barge Name: Unknown

USCG Doc No: Unknown

USCG File Name:

Barge Notes: *Hollywood Acquisition; Prefix matches other Hollywood vessels now registered to Kirby.***Hercules Job No: 4436****Date: 11/16/1994****Documents: Job Files, includes Invoice****Customer: Hollywood Marine**

EPA File No: R6JZ010001000235

Address: P.O. Box 1343, Houston, TX 77251-

PDF File: 8000719.pdf

Address Notes:

Cargo/Chemicals: HYDRAULIC OIL

Work Type: PUMP

Bates Number: HER 04447

File Contents: 4436 - HOLLY-1036 - HOLLYWOOD MARINE / HERCULES - SHELL TELLUS® T OIL 32
(HYDRAULIC OIL)**Barge Name: HOLLY-2524**

Barge Owner: Kirby

Current Barge Name: KIRBY 24703

USCG Doc No: 1027117

USCG File Name: KIRBY 24703 [HOLLYWOOD 2524].pdf

Barge Notes:

Hercules Job No: 4711**Date: 6/6/1995****Documents: Job Files****Customer: Hollywood Marine**

EPA File No: R6JZ010001000255

Address: P.O. Box 1343, Houston, TX 77251-

PDF File: 8000355.pdf

Address Notes:

Cargo/Chemicals: OIL

Work Type: REMOVE PRODUCT

Bates Number: HER 04866

File Contents: 4711 - HOLLY-2524 - HOLLYWOOD MARINE / HERCULES - #6 OIL

Barge Name: M/V BLUEFISH & M/V CITY OF FREEPORT

Barge Owner: Kirby

Current Barge Name: BLUEFISH

USCG Doc No: Unknown

USCG File Name:

Barge Notes: *See M/V Bluefish and M/V City of Freeport Registration.***Hercules Job No: 4931****Date: 12/29/1995****Documents: Job Files, includes Invoice****Customer: TPT**

EPA File No: R6JZ010001000126

Address: 7747 Tom Drive, Baton Rouge, LA 70806-

PDF File: 8000653.pdf

Address Notes:

Cargo/Chemicals: DIESEL FUEL

Work Type: PUMP, FUEL TRANSFER

Bates Number: HER 02687

File Contents: 4931 - M / V BLUEFISH AND CITY OF FREEPORT - TPT TRANSPORTATION /
HERCULES - PUMP BILGES AND TRANSFER DIESEL FUEL

Barge Name: M/V CITY OF FREEPORT

Barge Owner: Kirby

Current Barge Name: CITY OF FREEPORT

USCG Doc No: 629736

USCG File Name: CITY OF FREEPORT [M B FREEMAN].pdf

Barge Notes:

Hercules Job No: 4894**Date: 10/31/1995****Documents: Job Files, includes Invoice****Customer: TPT**

EPA File No: R6JZ010001000065

Address: 7747 Tom Drive, Baton Rouge, LA 70806-

PDF File: 8000846.pdf

Address Notes:

Cargo/Chemicals:

Work Type: WELD

Bates Number: HER 01682

File Contents: 4894 - M/V: CITY OF FREEPORT - TPT / HERCULES - CLEAN - OUT BILGE AND
DEGREASE WITH GAMBLIN SOLUTION, WELDING**Barge Name: RIO-400**

Barge Owner: Kirby

Current Barge Name: KIRBY 11003

USCG Doc No: 641589

USCG File Name: KIRBY 11003 [RIO 400].pdf

Barge Notes:

Hercules Job No: 4554**Date: 3/4/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000279

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000760.pdf

Address Notes: Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806

Cargo/Chemicals: STYRENE

Work Type:

Bates Number: HER 05269

File Contents: 4554 - RIO-400 - DIXIE CARRIERS / HERCULES - STYRENE

Barge Name: RIO-500

Barge Owner: Kirby

Current Barge Name: KIRBY 11004

USCG Doc No: 642645

USCG File Name: KIRBY 11004 [RIO 500].pdf

Barge Notes:

Hercules Job No: 4562**Date: 3/4/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000282

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000763.pdf

Address Notes: Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806

Cargo/Chemicals: METHANOL

Work Type: STRIP, BLOW

Bates Number: HER 05336

File Contents: 4562 - RIO-500 - DIXIE CARRIERS / HERCULES - METHANOL (METHYL ALCOHOL)
(ISOPROPYLBENZENE)

Barge Name: SC-150

Barge Owner: Kirby

Current Barge Name: Unknown

USCG Doc No: Unknown

USCG File Name:

Barge Notes: *Assumed to be Scott Chotin, Inc. vessel based on prefix-SC. Scott Chotin, Inc. acquired by Kirby i*

Hercules Job No: 4599

Date: 4/4/1995

Documents: Job Files, includes Invoice

Customer: Dixie Carriers

EPA File No: R6JZ010001000296

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000777.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: BENZENE

Work Type:

Bates Number: HER 05615

File Contents: 4599 - SC-150 - DIXIE CARRIERS / HERCULES - BENZENE

Barge Name: SC-1902

Barge Owner: Kirby

Current Barge Name: KIRBY 10530

USCG Doc No: 626998

USCG File Name: KIRBY 10530 [SC 1902].pdf

Barge Notes:

Hercules Job No: 4669**Date: 5/18/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000140

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000667.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: METHANOL

Work Type: STRIP

Bates Number: HER 02923

File Contents: 4669 - SC-1902 - DIXIE CARRIERS / HERCULES - METHANOL (METHYL ALCOHOL, WOOD ALCOHOL)

Hercules Job No: 4679**Date: 5/13/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000109

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000639.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: CHLOROFORM

Work Type: STRIP

Bates Number: HER 02366

File Contents: 4679 - SC-1902 - DIXIE CARRIERS / HERCULES - CHLOROFORM

Hercules Job No: 4687**Date: 6/6/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000114

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000644.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: ACETONE

Work Type: STRIP, VACUUM

Bates Number: HER 02482

File Contents: 4687 - SC-1902 - DIXIE CARRIERS / HERCULES - ACETONE

Barge Name: **SC-1903**

Barge Owner: Kirby

Current Barge Name: Unknown

USCG Doc No: Unknown

USCG File Name:

Barge Notes: *Assumed to be Scott Chotin, Inc. vessel based on prefix-SC. Scott Chotin, Inc. acquired by Kirby i*

Hercules Job No: **4667**

Date: 5/1/1995

Documents: Job Files

Customer: Hercules Offshore

EPA File No: R6JZ010001000256

Address: 11011 Richmond Avenue, Ste. 500, Houston, TX 77042-

PDF File: 8000356.pdf

Address Notes:

Cargo/Chemicals: None Specified

Work Type: CHECK FOR SAND

Bates Number: HER 04867

File Contents: 4667 - SC-1903 - HERCULES - NO PRODUCT LISTED

Barge Name: SC-1904

Barge Owner: Kirby

Current Barge Name: Unknown

USCG Doc No: Unknown

USCG File Name:

Barge Notes: *Assumed to be Scott Chotin, Inc. vessel based on prefix-SC. Scott Chotin, Inc. acquired by Kirby i***Hercules Job No: 4780****Date: 7/31/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000068

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000168.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: ETHYLENE DICHLORIDE

Work Type:

Bates Number: HER 01771

File Contents: 4780 - SC-1904 - DIXIE CARRIERS / HERCULES - E.D.C. (ETHYLENE DICHLORIDE)

Hercules Job No: 4857**Date: 9/30/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000079

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000179.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: FILL NITROGEN BOTTLE

Work Type:

Bates Number: HER 01897

File Contents: 4857 - SC-1904 - DIXIE CARRIERS / HERCULES - FILL NITROGEN BOTTLE

Hercules Job No: 4922**Date: 12/18/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000081

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000181.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: FILL NITROGEN BOTTLE

Work Type:

Bates Number: HER 01932

File Contents: 4922 - SC-1904 - DIXIE CARRIERS / HERCULES - FILL NITROGEN BOTTLE

Hercules Job No: 5156**Date: 8/23/1996****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000178

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000278.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: FILL NITROGEN BOTTLE

Work Type:

Bates Number: HER 03457

File Contents: 8 - 5156 - SC-1904 - DIXIE CARRIERS / HERCULES - FILL NITROGEN BOTTLE

Hercules Job No: 5279 **Date:** 10/31/1996 **Documents:** Job Files, includes Invoice
Customer: Dixie Carriers EPA File No: R6JZ010001000187
Address: 2102 Broadway, Houston, TX 77012- PDF File: 8000287.pdf
Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*
Cargo/Chemicals: ETHYLENE DICHLORIDE
Work Type: **Bates Number:** HER 03554
File Contents: 10 - 5279 - SC-1904 - DIXIE CARRIERS / HERCULES - ETHYLENE DICHLORIDE

Barge Name: <u>SC-1905</u>	
Barge Owner: Kirby	Current Barge Name: KIRBY 10330
USCG Doc No: 569781	USCG File Name: KIRBY 10330 [SC 1905].pdf
Barge Notes:	

Hercules Job No: 4664 **Date:** 5/17/1995 **Documents:** Job Files, includes Invoice
Customer: Dixie Carriers EPA File No: R6JZ010001000139
Address: 2102 Broadway, Houston, TX 77012- PDF File: 8000666.pdf
Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*
Cargo/Chemicals: ETHYLENE DICHLORIDE
Work Type: STRIP **Bates Number:** HER 02903
File Contents: 4664 - SC-1905 - DIXIE CARRIERS / HERCULES - ETHYLENE DICHLORIDE

Hercules Job No: 4689 **Date:** 6/7/1995 **Documents:** Job Files, includes Invoice
Customer: Dixie Carriers EPA File No: R6JZ010001000115
Address: 2102 Broadway, Houston, TX 77012- PDF File: 8000645.pdf
Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*
Cargo/Chemicals: FILL NITROGEN BOTTLE
Work Type: PURGE **Bates Number:** HER 02493
File Contents: 4689 - SC-1905 - DIXIE CARRIERS / HERCULES - FILL NITROGEN BOTTLE

Hercules Job No: 5128 **Date:** 7/31/1996 **Documents:** Job Files, includes Invoice
Customer: Dixie Carriers EPA File No: R6JZ010001000054
Address: 2102 Broadway, Houston, TX 77012- PDF File: 8000154.pdf
Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*
Cargo/Chemicals: NITROGEN
Work Type: **Bates Number:** HER 01427
File Contents: 7 - 5128 - SC-1905 - DIXIE CARRIERS / HERCULES - NITROGEN / LIQUID NITRO

Barge Name: SC-1907

Barge Owner: Kirby

Current Barge Name: Unknown

USCG Doc No: Unknown

USCG File Name:

Barge Notes: *Assumed to be Scott Chotin, Inc. vessel based on prefix-SC. Scott Chotin, Inc. acquired by Kirby i***Hercules Job No: 4550****Date: 2/28/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000276

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000757.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: BENZENE

Work Type:

Bates Number: HER 05206

File Contents: 4550 - SC-1907 - DIXIE CARRIERS / HERCULES - BENZENE

Hercules Job No: 4551**Date: 2/28/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000277

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000758.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: ENGINE OIL

Work Type: MAINTENANCE

Bates Number: HER 05233

File Contents: 4551 - SC-1907 - DIXIE CARRIERS / HERCULES - MAINTENANCE ON BARGE, ENGINE OIL CHANGE (MOBIL DELVAC I)

Barge Name: SC-1908

Barge Owner: Kirby

Current Barge Name: KIRBY 10344

USCG Doc No: 569784

USCG File Name: KIRBY 10344 [SC 1908].pdf

Barge Notes:

Hercules Job No: 4574**Date: 3/23/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000286

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000767.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: STYRENE

Work Type:

Bates Number: HER 05414

File Contents: 4574 - SC-1908 - DIXIE CARRIERS / HERCULES - STYRENE

Barge Name: SC-1909

Barge Owner: Kirby

Current Barge Name: Unknown

USCG Doc No: Unknown

USCG File Name:

Barge Notes: *Assumed to be Scott Chotin, Inc. vessel based on prefix-SC. Scott Chotin, Inc. acquired by Kirby i***Hercules Job No: 4768****Date: 7/31/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000103

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000203.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: SODIUM HYDROXIDE

Work Type:

Bates Number: HER 02265

File Contents: 4768 - SC-1909 - DIXIE CARRIERS / HERCULES - SODIUM HYDROXIDE (CAUSTIC SODA)

Barge Name: SC-312

Barge Owner: Kirby

Current Barge Name: Unknown

USCG Doc No: Unknown

USCG File Name:

Barge Notes: *Assumed to be Scott Chotin, Inc. vessel based on prefix-SC. Scott Chotin, Inc. acquired by Kirby i***Hercules Job No: 4688****Date: 5/19/1995****Documents: Job Files****Customer: Dixie Carriers**

EPA File No: R6JZ010001000254

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000354.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: MTB

Work Type: CLEAN IF POWDER RUST FOUND

Bates Number: HER 04865

File Contents: 4688 - SC-312 - DIXIE / HERCULES - PRODUCT UNCLEAR

Barge Name: SC-700, SC-701, SC-703, SC-704

Barge Owner: Kirby

Current Barge Name: Unknown

USCG Doc No: Unknown

USCG File Name:

Barge Notes: *Assumed to be Scott Chotin, Inc. vessel based on prefix-SC. Scott Chotin, Inc. acquired by Kirby i***Hercules Job No: 4811****Date: 8/31/1995****Documents: Job Files, includes Invoice****Customer: Cashman**

EPA File No: R6JZ010001000328

Address: 256 Marginal Street, East Boston, MA 02128-

PDF File: 8000428.pdf

Address Notes: 8000428.pdf

Cargo/Chemicals: None Listed

Work Type: SANDBLAST

Bates Number: HER 06173

File Contents: 4811 - SC-700 - CASHMAN / HERCULES - SANDBLASTING

Barge Name: TPT-110

Barge Owner: Kirby

Current Barge Name: Unknown

USCG Doc No: Unknown

USCG File Name:

Barge Notes: *Assumed to be TPT, Division of Ashland Oil Company. TPT acquired by Kirby in 1993.***Hercules Job No: 4340****Date:** 9/6/1994**Documents:** Job Files, includes Invoice**Customer:** TPT

EPA File No: R6JZ010001000247

Address: 7747 Tom Drive, Baton Rouge, LA 70806-

PDF File: 8000731.pdf

Address Notes:

Cargo/Chemicals: PIPERYLENE CONCENTRATE

Work Type: GAS FREE, REPAIR

Bates Number: HER 04747

File Contents: 4340 - TPT-110 - TPT / HERCULES - PIPERYLENE CONCENTRATE

Hercules Job No: 4402**Date:** 10/25/1994**Documents:** Job Files, includes Invoice**Customer:** TPT

EPA File No: R6JZ010001000250

Address: 7747 Tom Drive, Baton Rouge, LA 70806-

PDF File: 8000734.pdf

Address Notes:

Cargo/Chemicals: PIPERYLENE CONCENTRATE

Work Type: STRIP, BLOW

Bates Number: HER 04804

File Contents: 4402 - TPT-110 - TPT / HERCULES - PIPERYLENE CONCENTRATE

Hercules Job No: 4511**Date:** 1/31/1995**Documents:** Job Files, includes Invoice**Customer:** Dixie Carriers

EPA File No: R6JZ010001000264

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000745.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: PROPYLENE, PIPERLENE

Work Type: STRIP, BLOW

Bates Number: HER 05009

File Contents: 4511 - TPT-110 - DIXIE CARRIERS / HERCULES - PROPYLENE (PROPENE)

Hercules Job No: 4512**Date:** 2/16/1995**Documents:** Job Files**Customer:** TPT

EPA File No: R6JZ010001000064

Address: 7747 Tom Drive, Baton Rouge, LA 70806-

PDF File: 8000629.pdf

Address Notes:

Cargo/Chemicals: None Apparent

Work Type: WELD

Bates Number: HER 01668

File Contents: 4512 - TPT-110 - TPT / HERCULES - REPAIR HOSE AND (WELD ON BALL - VALVE)

Hercules Job No: 4603 **Date:** 3/31/1995 **Documents:** Job Files, includes Invoice
Customer: Dixie Carriers EPA File No: R6JZ010001000299
Address: 2102 Broadway, Houston, TX 77012- PDF File: 8000780.pdf
Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*
Cargo/Chemicals: PIPERYLENE CONCENTRATE
Work Type: **Bates Number:** HER 05671
File Contents: 4603 - TPT-110 - DIXIE CARRIERS / HERCULES - PIPERYLENE CONCENTRATE

Hercules Job No: 4657 **Date:** 5/10/1995 **Documents:** Job Files, includes Invoice
Customer: Dixie Carriers EPA File No: R6JZ010001000135
Address: 2102 Broadway, Houston, TX 77012- PDF File: 8000662.pdf
Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*
Cargo/Chemicals: PIPERYLENE CONCENTRATE
Work Type: STRIP **Bates Number:** HER 02845
File Contents: 4657 - TPT-110 - DIXIE CARRIERS / HERCULES - PIPERYLENE CONCENTRATE

Hercules Job No: 4730 **Date:** 6/30/1995 **Documents:** Job Files, includes Invoice
Customer: Dixie Carriers EPA File No: R6JZ010001000090
Address: 2102 Broadway, Houston, TX 77012- PDF File: 8000190.pdf
Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*
Cargo/Chemicals: PIPERYLENE CONCENTRATE
Work Type: **Bates Number:** HER 02071
File Contents: 4730 - TPT-110 - DIXIE CARRIERS / HERCULES - PIPERYLENE CONCENTRATE

Barge Name: TPT-120

Barge Owner: Kirby

Current Barge Name: Unknown

USCG Doc No: Unknown

USCG File Name:

Barge Notes: *Assumed to be TPT, Division of Ashland Oil Company. TPT acquired by Kirby in 1993.***Hercules Job No: 4364****Date: 9/28/1994****Documents: Job Files, includes Invoice****Customer: TPT**

EPA File No: R6JZ010001000249

Address: 7747 Tom Drive, Baton Rouge, LA 70806-

PDF File: 8000733.pdf

Address Notes:

Cargo/Chemicals: RESIN OIL

Work Type: STRIP, BLOW

Bates Number: HER 04790

File Contents: 4364 - TPT-120 - TPT / HERCULES - RESIN OIL 60

Hercules Job No: 4602**Date: 3/31/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000298

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000779.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: RESIN OIL

Work Type:

Bates Number: HER 05654

File Contents: 4602 - TPT-120 - DIXIE CARRIERS / HERCULES - RESIN OIL 80

Barge Name: TPT-121

Barge Owner: Kirby

Current Barge Name: Unknown

USCG Doc No: Unknown

USCG File Name:

Barge Notes: *Assumed to be TPT, Division of Ashland Oil Company. TPT acquired by Kirby in 1993.***Hercules Job No: 4652****Date: 5/18/1995****Documents: Job Files, includes Invoice****Customer: TPT**

EPA File No: R6JZ010001000130

Address: 7747 Tom Drive, Baton Rouge, LA 70806-

PDF File: 8000657.pdf

Address Notes:

Cargo/Chemicals: CAUSTIC SODA SOLUTION 50% (SODIUM HYDROXIDE, SODA LYE, SODIUM HY

Work Type: TRANSFER, COLD WATER WASH, REPAIR

Bates Number: HER 02742

File Contents: 4652 - TPT-121 - DIXIE CARRIERS / HERCULES - SODIUM HYDROXIDE (CAUSTIC SODA) - REPAIR HOLE IN TANK

Barge Name: TPT-123

Barge Owner: Kirby

Current Barge Name: Unknown

USCG Doc No: Unknown

USCG File Name:

Barge Notes: *Assumed to be TPT, Division of Ashland Oil Company. TPT acquired by Kirby in 1993.*

Hercules Job No: 4662

Date: 5/31/1995

Documents: Job Files, includes Invoice

Customer: Dixie Carriers

EPA File No: R6JZ010001000137

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000664.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: METHANOL

Work Type: STRIP

Bates Number: HER 02875

File Contents: *4662 - TPT-123 - DIXIE CARRIERS / HERCULES - METHANOL (METHYL ALCOHOL, WOOD ALCOHOL)*

Barge Name: TPT-321

Barge Owner: Kirby

Current Barge Name: Unknown

USCG Doc No: Unknown

USCG File Name:

Barge Notes: *Assumed to be TPT, Division of Ashland Oil Company. TPT acquired by Kirby in 1993.***Hercules Job No: 4345****Date:** 9/6/1994**Documents:** Job Files, includes Invoice**Customer:** TPT

EPA File No: R6JZ010001000248

Address: 7747 Tom Drive, Baton Rouge, LA 70806-

PDF File: 8000732.pdf

Address Notes:

Cargo/Chemicals: ETHANOL

Work Type: STRIP, BLOW

Bates Number: HER 04777

File Contents: 4345 - TPT-321 - TPT / HERCULES - ETHANOL

Hercules Job No: 4403**Date:** 10/25/1994**Documents:** Job Files, includes Invoice**Customer:** TPT

EPA File No: R6JZ010001000251

Address: 7747 Tom Drive, Baton Rouge, LA 70806-

PDF File: 8000735.pdf

Address Notes:

Cargo/Chemicals: STYRENE MONOMER

Work Type: STRIP, BLOW

Bates Number: HER 04847

File Contents: 4403 - TPT-321 - TPT / HERCULES - STYRENE MONOMER

Hercules Job No: 4499**Date:** 1/20/1995**Documents:** Job Files, includes Invoice**Customer:** Dixie Carriers

EPA File No: R6JZ010001000263

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000744.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: XYLENE

Work Type: STRIP, BLOW

Bates Number: HER 04989

File Contents: 4499 - TPT-321 - DIXIE CARRIERS / HERCULES - STYRENE (XYLENE? PAGE 136)

Barge Name: TPT-351

Barge Owner: Kirby

Current Barge Name: Unknown

USCG Doc No: Unknown

USCG File Name:

Barge Notes: *Assumed to be TPT, Division of Ashland Oil Company. TPT acquired by Kirby in 1993.***Hercules Job No: 4754****Date:** 7/28/1995**Documents:** Job Files, includes Invoice**Customer:** Dixie Carriers

EPA File No: R6JZ010001000097

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000197.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: PYROLYSIS GASOLINE

Work Type:

Bates Number: HER 02177

File Contents: 4754 - TPT-351 - DIXIE CARRIERS / HERCULES - PYROLYSIS GASOLINE

Hercules Job No: 4774**Date:** 7/31/1995**Documents:** Job Files, includes Invoice**Customer:** Dixie Carriers

EPA File No: R6JZ010001000106

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000206.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: PYROLYSIS GASOLINE

Work Type:

Bates Number: HER 02313

File Contents: 4774 - TPT-351 - DIXIE CARRIERS / HERCULES - PYROLYSIS GASOLINE

Barge Name: TPT-372

Barge Owner: Kirby

Current Barge Name: Unknown

USCG Doc No: Unknown

USCG File Name:

Barge Notes: *Assumed to be TPT, Division of Ashland Oil Company. TPT acquired by Kirby in 1993.***Hercules Job No: 4318****Date:** 7/13/1994**Documents:** Accounting-Invoice**Customer:** Not Applicable

EPA File No: R6JZ010001000152

Address: n/a, ,

PDF File: 8000252.pdf

Address Notes:

Cargo/Chemicals:

Work Type: Vendor

Bates Number: HER 03033

File Contents: *INVOICE - GALVESTON LABORATORIES, BARGE TPT-372***Customer:** TPT

EPA File No: R6JZ010001000245

Address: 7747 Tom Drive, Baton Rouge, LA 70806-

PDF File: 8000729.pdf

Address Notes:

Cargo/Chemicals: XYLENE

Work Type: STRIP, BLOW

Bates Number: HER 04702

File Contents: *4318 - TPT-372 - TPT / HERCULES - XYLENE***Barge Name: TPT-384**

Barge Owner: Kirby

Current Barge Name: Unknown

USCG Doc No: Unknown

USCG File Name:

Barge Notes: *Assumed to be TPT, Division of Ashland Oil Company. TPT acquired by Kirby in 1993.***Hercules Job No: 4800****Date:** 8/29/1995**Documents:** Job Files, includes Invoice**Customer:** Dixie Carriers

EPA File No: R6JZ010001000072

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000172.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: STYRENE

Work Type:

Bates Number: HER 01847

File Contents: *4800 - TPT-384 - DIXIE CARRIERS / HERCULES - STYRENE*

Barge Name: TPT-50

Barge Owner: Kirby

Current Barge Name: Unknown

USCG Doc No: Unknown

USCG File Name:

Barge Notes: *Assumed to be TPT, Division of Ashland Oil Company. TPT acquired by Kirby in 1993.***Hercules Job No: 4642****Date:****Documents: Job Files****Customer: Dixie Carriers**

EPA File No: R6JZ010001000318

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000418.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals:

Work Type:

Bates Number: HER 06040

File Contents: 4642 - TPT-50 - DIXIE CARRIERS / HERCULES - PARTS LIST OUT OF BARGE FOLDER

Customer: Dixie Carriers

EPA File No: R6JZ010001000315

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000796.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: ETHYL BENZENE

Work Type:

Bates Number: HER 05991

File Contents: 4642 - TPT-50 - DIXIE CARRIERS / HERCULES - ETHYLBENZENE

Hercules Job No: 4666**Date: 5/17/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000141

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000668.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: CUMENE

Work Type: HOT WATER WASH

Bates Number: HER 02955

File Contents: 4666 - TPT-50 - DIXIE CARRIERS / HERCULES - CUMENE

Barge Name: TPT-901

Barge Owner: Kirby

Current Barge Name: Unknown

USCG Doc No: Unknown

USCG File Name:

Barge Notes: *Assumed to be TPT, Division of Ashland Oil Company. TPT acquired by Kirby in 1993.***Hercules Job No: 4404****Date:** 10/25/1994**Documents:** Job Files, includes Invoice**Customer:** TPT

EPA File No: R6JZ010001000252

Address: 7747 Tom Drive, Baton Rouge, LA 70806-

PDF File: 8000736.pdf

Address Notes:

Cargo/Chemicals: RESIN OIL

Work Type: STRIP, BLOW

Bates Number: HER 04838

File Contents: 4404 - TPT-901 - TPT / HERCULES - RESIN OIL 80

Hercules Job No: 4541**Date:** 5/3/1995**Documents:** Job Files, includes Invoice**Customer:** Dixie Carriers

EPA File No: R6JZ010001000274

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000755.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: RESIN OIL

Work Type:

Bates Number: HER 05176

File Contents: 4541 - TPT-901 - DIXIE CARRIERS / HERCULES - CLEAN - OUT (RESINOL) COFFERDAM
AND DISPOSE OF OIL AND WATER**Hercules Job No: 4620****Date:** 4/10/1995**Documents:** Job Files, includes Invoice**Customer:** Dixie Carriers

EPA File No: R6JZ010001000305

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000786.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: RESIN OIL

Work Type:

Bates Number: HER 05774

File Contents: 4620 - TPT-901 - DIXIE CARRIERS / HERCULES - RESIN OIL 80

Barge Name: TPT-924

Barge Owner: Kirby

Current Barge Name: Unknown

USCG Doc No: Unknown

USCG File Name:

Barge Notes: *Assumed to be TPT, Division of Ashland Oil Company. TPT acquired by Kirby in 1993.***Hercules Job No: 4743****Date: 7/21/1995****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000094

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000194.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: XYLENE

Work Type: STRIP, BLOW

Bates Number: HER 02132

File Contents: 4743 - TPT-924 - DIXIE CARRIERS / HERCULES - XYLENE

Barge Name: TPT-932

Barge Owner: Kirby

Current Barge Name: Unknown

USCG Doc No: Unknown

USCG File Name:

Barge Notes: *Assumed to be TPT, Division of Ashland Oil Company. TPT acquired by Kirby in 1993.***Hercules Job No: 4457****Date: 12/21/1994****Documents: Job Files, includes Invoice****Customer: Dixie Carriers**

EPA File No: R6JZ010001000223

Address: 2102 Broadway, Houston, TX 77012-

PDF File: 8000707.pdf

Address Notes: *Alt. Address (1995): 7747 Tom Drive, Baton Rouge, LA 70806*

Cargo/Chemicals: CYCLOPENTADIENE

Work Type: STRIP, HOT WATER WASH

Bates Number: HER 04104

File Contents: 4457 - TPT-932 - DIXIE CARRIERS / HERCULES - CYCLOPENTADIENE TRIMERS MIXTURE

Barge Name: TPT-933

Barge Owner: Kirby

Current Barge Name: Unknown

USCG Doc No: Unknown

USCG File Name:

Barge Notes: *Assumed to be TPT, Division of Ashland Oil Company. TPT acquired by Kirby in 1993.***Hercules Job No: 4333****Date: 8/22/1994****Documents: Job Files, includes Invoice****Customer: TPT**

EPA File No: R6JZ010001000246

Address: 7747 Tom Drive, Baton Rouge, LA 70806-

PDF File: 8000730.pdf

Address Notes:

Cargo/Chemicals: RESIN OIL

Work Type: STRIP, BLOW

Bates Number: HER 04730

File Contents: 4333 - TPT-933 - TPT / HERCULES - RESIN OIL 80

Hercules Job No: 4419**Date: 11/4/1994****Documents: Job Files, includes Invoice****Customer: TPT**

EPA File No: R6JZ010001000253

Address: 7747 Tom Drive, Baton Rouge, LA 70806-

PDF File: 8000737.pdf

Address Notes:

Cargo/Chemicals: RESIN OIL

Work Type: STRIP, BLOW

Bates Number: HER 04851

File Contents: 4419 - TPT-933 - TPT / HERCULES - RESIN OIL 80

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PRP Name: Le Beouf Bros. Towing

Le Beauf Bros. Towing
P.O. Box 9036
Houma, LA 70361
(985) 594-6691
www.lebeouftowing.com/Site/Home.html

TYPE OF BUSINESS: Marine Services

KNOWN PERIOD OF SITE NEXUS: May 1995

May 1995

Description: Vessel Services – Mechanical/Repair services to Towing Vessel Creole Rivers. Repair Job cost work sheet indicates waste water was generated.

Hercules Job ID: 4706

Cargo/Material: Unknown

Hazardous Substance: Indeterminate

EPA Document No. R6JZ010001000076; 8000632.pdf

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PRP Name: Mega Fleet Towing Co., Inc.

Mega Fleet Towing Co., Inc.¹
3511 Watters Road
Pasadena, Texas 77504-2327
(713) 941-1020
<http://www.kindermorgan.com/>

TYPE OF BUSINESS: Marine Hauling Services

KNOWN PERIOD OF SITE NEXUS: Indeterminate

Description: Vessel Services – Deposition Testimony of Gloria Millsap, 2/11/1998, Hercules Marine Services Corp. v. Bob Casales, p. 69.

- Q. What kind of work generally did you do for Megafleet, if you can tell me?
A. repair a broken wheel, repair engine, you know....”

Hercules Job ID: Unknown

Cargo/Material: Unknown

Hazardous Substance: Indeterminate

EPA Document No. R6JZ010001000465; (Deposition of Gloria Millsap)

¹ “In April [2009], [Kinder Morgan] KMP acquired Megafleet Towing Co., the largest independent boat operator in Texas. The inland push boats are used for transporting barges on the Intracoastal Waterway and in the Houston harbor complex. These assets will provide ancillary services to the company’s existing terminals in the Port of Houston.”, <http://phx.corporate-ir.net/phoenix.zhtml?c=119776&p=irol-newsArticle&ID=1308066&highlight=megafleet>, November 5, 2009.

16

PRP Name: Occidental Chemical Company

Occidental Chemical Company

www.oxy.com

TYPE OF BUSINESS: Chemical Manufacture

KNOWN PERIOD OF SITE NEXUS: 1996

1996

Description: Oxy identified in budget document prepared by Hercules. Document projects eight barges to be serviced.

Hercules Job ID: Unknown

Cargo/Material: Unknown

Hazardous Substance: Indeterminate

EPA Document No. 8000622.pdf

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PRP Name: Seabulk Offshore

Seabulk Offshore
c/o Seabulk Towing Services, Inc.
Port Arthur
P.O. Box 905
Groves, Texas 77619
(409) 962-0201
www.seabulkinternational.com

TYPE OF BUSINESS: Harbor and Offshore Towing

KNOWN PERIOD OF SITE NEXUS: August 1995

August 2, 1995

Description: Hercules Bankruptcy filing lists Seabulk in Schedule B-15 Accounts Receivable Aging Report.

Hercules Job ID: Unknown

Cargo/Material: Unknown

Hazardous Substance: Indeterminate

EPA Document No. R6JZ010001000438; 8000538.pdf

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PRP Name: Stolt Nielsen
Stolt Nielsen USA, Inc.

Stolt Nielsen
c/o Stolt-Nielsen USA, Inc.
15635 Jacintoport Boulevard
Houston, TX 77015-6534

P.O. Box 96438
Houston, Texas 77213-6438
www.stolt-nielsen.com

TYPE OF BUSINESS: Inland Tank and Barge Towing Vessels

KNOWN PERIOD OF SITE NEXUS: 1995 - 1996

May 13, 1995 **Description:** "Services to barge MMI-601 as follows:...[s]trip out all free product... Cold water wash pipeline and stripping system... Cold water wash cargo tanks..."

Hercules Job ID: 4678

Cargo/Material: Caustic Soda

Hazardous Substance: Yes

EPA Document No. R6JZ010001000063; 8000628.pdf

May 13, 1995 **Description:** Barge Cleaning Services – Clean barge MMI 301; "Strip out all free product... Cold water wash pipe line and stripping... Cold water wash tanks..."

Hercules Job ID: 4677

Cargo/Material: Caustic Soda

Hazardous Substance: Yes

EPA Document No. 8000845.pdf

1996

Description: Barge Services – Stolt-Nielsen identified as a customer in Hercules Marine Budget document prepared by Hercules. Document estimates ten barges to be serviced.

Hercules Job ID: N/A

Cargo/Material: Unknown

Hazardous Substance: Indeterminate

EPA Document No. 8000622.pdf

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PRP Name: Western Seafood Company

Western Seafood Company
301 W. Bracos
Freeport, Texas 77541

TYPE OF BUSINESS: Commercial

KNOWN PERIOD OF SITE NEXUS: June 1995

June 16, 1995

Description: Vessel Maintenance Services – M/V Uncle
Dung – “remove barnicles from bottom of boat, sandblast
and paint with zinc paint...”

Hercules Job ID: 4719

Cargo/Material: Marine paint waste (including zinc)

Hazardous Substance: Yes

EPA Document No. R6JZ010001000062; 8000627.pdf

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PRP Name: Western Towing

Western Towing
18350 Market Street
Channelview, Texas 77530
(713) 435-1800

(Note: This address is the same as the Kirby Inland Marine Operations Center. Western Towing may be a Kirby entity but this has not yet been determined)

TYPE OF BUSINESS: Marine Services

KNOWN PERIOD OF SITE NEXUS: 1995 - 1998

March 2, 1995 Description: Vessel Services – Strip Bilge from vessel
M/V Big Bay

Hercules Job ID: 4570

Cargo/Material: Bilge Water

Hazardous Substance: Indeterminate

EPA Document No. R6JZ010001000066

Jan 25, 1996 Description: Vessel Services – Strip Bilge from Vessel
Pacesetter.

Hercules Job ID: 4974

Cargo/Material: Bilge Water

Hazardous Substance: Indeterminate

EPA Document No. R6JZ010001000183, [HER03526]

1995 – 1998

Description: Barge Services – Exhibit C to Hercules Marine Service Corporation Business Plan for 1994 – 1995 estimates revenue from HMSC customers. Estimated annual revenue from Western Towing is \$33,000.

Hercules Job ID: N/A

Cargo/Material: Unknown

Hazardous Substance: Indeterminate
EPA Document No. 8000622.pdf

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ATTACHMENT

**Gulfco Marine Budget Forecast Documents
(Extracted from electronic file 8000622.pdf)**

HERCULES MARINE SERVICES CORPORATION

BUSINESS PLAN FOR 1994 - 1995

Prepared by: Larry Ballinger and Jimmy Jackson, Co-Managers

Edits by: Steve Barwick and Robert Millis

Date: November 17, 1994

=====

The Hercules Marine Services Corporation ("HMSC") facility is located on the Intracoastal Waterway on approximately forty acres in Freeport, Texas, adjacent to the U.S. Gulf of Mexico. The facility is in close proximity to a number of major chemical refineries.

HMSC is engaged in three separate but inter-related business segments: barge cleaning, barge mechanical repair and fabrication and boat repair. The barge cleaning segment typically services barges which have recently delivered their cargo. The Company also collects additional revenues from loading and unloading boats and, in the past, has rented dock space and sold residue product recovered from incoming barges.

As the information for this report was assembled, the HMSC managers consulted with a number of barge operators and chemical companies located in the area regarding their expectations of doing business with HMSC. The Company has a favorable competitive position since the next closest barge cleaning facility to Freeport is located in Houston, which is approximately twelve hours traveling time via water from Freeport.

Dow Chemical, whose Texas plant is located approximately one mile from the Hercules facility, is in the process of finishing an upgrading of that facility. When finished, Dow will increase their current barge activity from 2300 barges a year to approximately 3300 barges a year. Dow has recently sold its barge fleet to Dixie Carriers and TPT, another carrier. These two companies now handle all of Dow's Freeport barge traffic. Hercules

expects to receive a great deal of business from these two customers, as they continue to service the Dow plant.

Formosa Chemical has a multi-billion dollar plant under construction near HMSC's location, which will be in full operation in 1995. Shintech has just purchased a nearby dock facility in order to transport their products by barges. BASF has just signed an agreement with Phillips, whereby BASF will use some of Phillips' storage tanks and dock in order to handle more barges. The BASF plant is also located in Freeport. HMSC expects all of these customers to provide significant business in the future (see attached Exhibit "C").

HMSC has two competitors in the Freeport area. Swiftships mainly repairs large work boats and some barges. The other competitor, Texas Barge and Boat, has no fabrication shop and moving barges around inside their slip is a problem because of shallow water. There are no barge cleaning facilities in the Freeport area. As stated previously, the closest barge cleaning facility is in Houston. It is costly for a Freeport area customer to have to take a barge to Houston for cleaning which gives a certain advantage to the Hercules facility.

In October, 1994 HMSC took steps to reduce personnel costs and other expenses. Messrs. Larry Ballinger and Jim Jackson were named marine services co-managers. The former manager and the former superintendent were terminated. The foreman was moved from a salaried position to an hourly working leadman position. This reduction leaves three salaried employees and eleven hourly employees currently on HMSC's payroll. There are

no current plans to add salaried employees. Some of the personnel costs pertaining to the two managers will now be charged to customer jobs. HMSC will begin billing a portion of the office clerk's salary to Hercules Offshore Corporation (HOC) based upon the amount of clerical assistance she provides to HOC. These steps will save HMSC over \$16,000 per month commencing in the month of November, 1994. Effective immediately, all non-billable payroll hours must be approved in advance, by management.

Immediate steps have been taken to ensure a continuous operation and a profit on a consistent basis. HMSC recently revised its barge cleaning procedure in order to reduce the amount of VOC (fumes) released into the atmosphere. This will allow HMSC to clean more barges, even at times when wind direction varies. The volume of barges cleaned has already begun to increase significantly at the HMSC facility and is expected to increase henceforth.

There are certain capital projects which are needed in 1995. The marineway requires renovation in order to accommodate boats. HMSC has missed out on a large amount boat repair business in the past because the facility is not equipped to handle "V" bottom boats. Based on consultation with an engineer, management estimates that the marineway can be redesigned to accommodate "V" bottom boats for \$12,000. By doing this, HMSC expects to generate \$25,000 to \$55,000 a month in new business. Other capital expenditure requirements necessary to obtain presently forecasted revenues are shown in the attached Exhibit "B".

HMSC is subject to various regulations and environmental laws. The Company must comply with federal laws and the rules and regulations of numerous entities, including the U.S. Environment Protection Agency, the Texas Natural Resource Conservation Commission, the United States Coast Guard, as well as local governments. Management believes the Company is in compliance in all material aspects with known environmental laws and regulations. This has been independently verified on many occasions by respected and reliable environmental experts and consultants. Regulatory compliance will continue to be monitored periodically and as conditions dictate. A regulatory environmental review will be undertaken on a quarterly basis commencing with the quarter ending December 31, 1994 by an independent, experienced and respected (by regulatory authorities) environmental consulting firm.

Current operating procedures at the facility are not believed to require any new permits until November, 1996. Additional permitting will be required at that time in order to meet new requirements and the permitting is expected to be approved when requested.

In early 1994, the Company engaged Dr. H. M. Walker, an environmental consultant, to review operating procedures at the Freeport property in connection with securing an air permit. In his report dated March 17, 1994 and subsequent list of recommendations dated March 21, 1994 Dr. Walker made several observations and recommendations, which are discussed below.

In early 1994 a thermal oxidizer was purchased, even though its use will not be required until new regulations which prohibit VOC emissions become effective in November 1996. Final installation of the oxidizer, as well as installation of a scrubber unit, will take place in 1996. These projects are included in the list of future capital expenditure requirements shown in Exhibit "B". At that time, a benefit from the oxidizer will be additional revenues from charges to customers for the use of the oxidizer. Those additional revenues and associated operating costs are included in the forecast at Exhibit "E", beginning in November, 1996.

HMSC is permitted to perform a defined amount of sandblasting at the Freeport facility. In his reports, Dr. Walker recommended that the Company change from its use of silica sand to black grit in the sandblasting operations. Sandblasting with black grit does not emit the amount of dust into the air as does the use of silica sand. The Company now uses black grit in its sandblasting operations and is well within regulatory limits.

A new boiler was installed in 1994 at the Freeport facility to replace the old oil-burning boiler. The old boiler had a restriction on its use, as noted by Dr. Walker, because of the amount of smoke it produced in operation. The new boiler eliminates this problem. The new boiler does not significantly alter the facility's operation and, hence, required no additional permitting.

Exhibit "A" attached is HMSC's monthly P & L and cash flow forecast for the remainder of 1994 and all of 1995. Exhibit "B" lists capital expenditure requirements for

Hercules Marine Services Corporation
Business Plan for 1994 - 1995
November 17, 1994
Page 6

that same period as well as for future periods. Exhibit "C" lists potential HMSC customers with estimated revenues from each. Exhibit "D" lists the number of barges operated by potential customers in HMSC's customer base along with management's expected market share from each. Exhibit "E" is a forecast for years 1996 through 1998 based upon "best case" and "worst case" expectations of the Company's share of market during those years. Exhibit "F" summarizes capital expenditure projects already completed in 1994, those currently underway and those expected in 1995 and 1996.

HERCULES MARINE SERVICES CORPORATION

EXHIBIT "A"

P/L AND CASH FLOW FORECAST

	94 NOV	DEC	95 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1995 TOTAL	%
Barge Cleaning	25,000	32,000	40,000	45,000	60,000	70,000	72,000	72,000	72,000	75,000	72,000	70,000	70,000	70,000	780,000	47.6
Barge Mechanical/Repair	60,000	40,000	25,000	25,000	25,000	30,000	30,000	30,000	30,000	30,000	30,000	25,000	25,000	25,000	330,000	19.9
Miscellaneous	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	3,000	3,000	3,000	3,000	28,000	1.7
Boat Repair	0	12,000	25,000	35,000	35,000	35,000	50,000	50,000	52,000	52,000	45,000	45,000	45,000	40,000	509,000	30.8
TOTAL REVENUE	87,000	86,000	92,000	107,000	122,000	137,000	154,000	154,000	158,000	159,000	150,000	143,000	143,000	138,000	1,655,000	100.0
Personnel	31,320	30,860	33,120	38,520	43,920	49,820	58,800	55,440	56,160	57,240	54,000	51,480	51,480	49,480	599,160	36.2
GROSS MARGIN	55,680	55,040	58,880	68,480	78,080	87,180	95,200	98,560	99,840	101,760	96,000	91,520	91,520	88,520	1,055,840	63.8
Operating Expense	45,000	45,000	45,000	45,000	45,000	45,000	48,200	52,360	53,040	54,060	54,060	46,000	45,000	45,000	578,720	35.0
G & A Allocated	28,000	24,000	28,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	24,000	312,000	18.9
Interest Expense	6,000	4,000	9,000	6,000	6,000	6,000	8,000	5,000	5,000	5,000	5,000	4,000	4,000	4,000	62,000	3.7
NET INCOME *	(21,320)	(21,960)	(18,120)	(10,520)	1,080	10,680	14,000	15,200	15,800	16,760	10,940	15,520	16,520	13,320	103,120	6.2
Less:																
Capital Expenditures		12,000	4,000	2,000	8,500	0	0	0	0	0	0	0	0	0	14,500	
CASHFLOW	(21,320)	(33,960)	(22,120)	(10,520)	17,420	10,680	14,000	15,200	15,800	16,760	10,940	15,520	16,520	13,320	68,620	

* Excluding depreciation

NOTE: No income tax expense is shown, due to HMSC's tax loss carry-forward which can be used to offset most of the taxable income during this projection period.

HERCULES MARINE SERVICES CORPORATION

EXHIBIT "B"

CAPITAL EXPENDITURES
(FROM 1995 CASH FLOW)

DATE	PROJECT	EST. AMOUNT
DECEMBER 1994	REFURBISH THE MARINEWAY	\$12,000
JANUARY 1995	RAIL UPGRADE	4,000
FEBRUARY 1995	RAIL UPGRADE	2,000
MARCH 1995	CONCRETE SLAB	8,500
TOTAL		\$26,500

NOTE: These expenditures are necessary to attain revenues forecasted through December 1995.

(FROM 1996 CASH FLOW)

DATE	PROJECT	EST. AMOUNT
LATE 1996	INSTALL & HOOKUP OXIDIZER	\$60,000
LATE 1996	INSTALL & HOOKUP SCRUBBER	50,000
LATE 1996	MISC. CLEANING EQUIPMENT	15,000
LATE 1996	REPLACE STORAGE TANKS	6,000
LATE 1996	CONSULTANT FOR FINAL PERMIT	5,000
TOTAL		\$136,000

NOTE: These expenditures are necessary to attain revenues forecasted for November 1996 and later.

HERCULES MARINE SERVICES CORPORATION

EXHIBIT "C"

CUSTOMER LIST AND BREAKDOWN OF ESTIMATED REVENUE

	YEARLY	%
	-----	----
BARGE CLEANING:		
T.P.T.	197,000	25.0
BASF	78,800	10.0
Dixie Carriers	157,600	20.0
National Marine	78,800	10.0
Hollywood Marine	78,800	10.0
Ingram Barge Lines	63,000	8.0
Scott Chotin	78,800	10.0
Other	55,200	7.0
	-----	-----
	788,000	100.0
BARGE MECHANICAL/REPAIR:		
Scott Chopin	16,500	5.0
Conoco, Inc.	16,500	5.0
T.P.T.	49,500	15.0
BASF	49,500	15.0
Dixie Carriers	49,500	15.0
Ivory Productions	16,500	5.0
Hercules Offshore	49,500	15.0
Western Towing	33,000	10.0
Ingram Barge Lines	16,500	5.0
E. I. DuPont	16,500	5.0
Other	16,500	5.0
	-----	-----
	330,000	100.0
BOAT REPAIR:		
Shrimp Boat	102,200	20.0
Hornbeck	50,900	10.0
Captain Elliott	50,900	10.0
Oil Companies	152,500	30.0
Boat Companies	152,500	30.0
	-----	-----
	509,000	100.0

NOTE: Dow Chemical recently sold their barge fleet to Dixie Carriers and T.P.T. HMSC expects to obtain significant amount of revenue from these two carriers.

HERCULES MARINE SERVICES CORPORATION

EXHIBIT "D"

OF BARGES IN MARKET SHARE

COMPANY	1995			1996			1997			1998		
	BARGES PER WEEK	/HERCULES' PERCENTAGE/ /---OF MARKET SHARE---/		BARGES PER WEEK	/HERCULES' PERCENTAGE/ /---OF MARKET SHARE---/		BARGES PER WEEK	/HERCULES' PERCENTAGE/ /---OF MARKET SHARE---/		BARGES PER WEEK	/HERCULES' PERCENTAGE/ /---OF MARKET SHARE---/	
		LOW	HIGH		LOW	HIGH		LOW	HIGH		LOW	HIGH
National Marine	8	28.0	38.5	8	28.0	38.5	8	28.0	38.5	8	28.0	38.5
Hollywood Marine	80	28.0	38.5	80	28.0	38.5	80	28.0	38.5	80	28.0	38.5
BASF	6	72.0	99.0	6	72.0	99.0	6	72.0	99.0	6	72.0	99.0
Ingram	40	12.0	16.5	40	12.0	16.5	40	12.0	16.5	40	12.0	16.5
Scott-Chotin	6	16.0	22.0	6	16.0	22.0	6	16.0	22.0	6	16.0	22.0
Conoco	3	26.4	36.3	3	26.4	36.3	3	26.4	36.3	3	26.4	36.3
IPT	4	56.0	77.0	6	56.0	77.0	6	56.0	77.0	6	56.0	77.0
Dixie Carriers	40	48.0	66.0	57	48.0	66.0	57	48.0	66.0	57	48.0	66.0
Other	60	20.0	27.5	60	20.0	27.5	60	20.0	27.5	60	20.0	27.5
Total	247	34.0	46.8	266	34.0	46.8	266	34.0	46.8	266	34.0	46.8

HERCULES MARINE SERVICES CORPORATION

EXHIBIT 'E'

FORECAST OF FUTURE YEARS

PREVIOUS YEARS
COMPARATIVE ACTUALS**

	1995		1996		1997		1998		1989	1990
	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	TOTAL	TOTAL
Barge Cleaning	709,000	887,000	708,000	1,062,000	1,262,000	1,693,000	1,324,000	1,986,000		
Barge Mechanical/Repair	297,000	363,000	214,000	322,000	298,000	447,000	313,000	470,000		
Miscellaneous	25,000	30,000	29,000	43,000	29,000	43,000	31,000	46,000		
Boat Repair	458,000	580,000	405,000	807,000	430,000	645,000	451,000	677,000		
TOTAL REVENUE	1,489,000	1,820,000	1,356,000	2,034,000	2,019,000	3,028,000	2,119,000	3,179,000	2,544,000	2,873,000
Personnel	539,000	659,000	490,000	735,000	730,000	1,096,000	767,000	1,151,000	1,171,000	1,331,000
GROSS MARGIN	950,000	1,161,000	866,000	1,299,000	1,289,000	1,932,000	1,352,000	2,028,000	1,373,000	1,542,000
Operating Expense	521,000	837,000	475,000	712,000	707,000	1,060,000	742,000	1,113,000	797,000	850,000
G & A Allocated	312,000	312,000	327,000	327,000	343,000	343,000	361,000	361,000	228,000	236,000
Interest Expense	62,000	62,000	48,000	48,000	38,000	38,000	24,000	24,000	119,000	133,000
NET INCOME *	55,000	150,000	16,000	211,000	203,000	493,000	225,000	530,000	229,000	323,000
Less:										
Capital Expenditures	14,500	14,500	136,000	138,000	0	0	0	0		
CASHFLOW	40,500	135,500	(120,000)	75,000	203,000	493,000	225,000	530,000		

* Excluding depreciation

**The profitable years of 1989 & 1990 are shown for comparative purposes only.

HERCULES MARINE SERVICES CORPORATION

EXHIBIT "F"

STATEMENT REGARDING CAPITAL PROJECTS

1 expenditure projects, forecasted, currently underway, or recently

	ESTIMATED COST	COST THRU 11-15-94	ADDITIONAL COSTS TO COMPLETE	ESTIMATED COMPLETION DATE
TION UNITS TO TO STORAGE	4,079	4,121	0	COMPLETE
UMPS TO TRANSFER NKs.	18,512	17,062	0	COMPLETE
FUNDS STORAGE TANKS	38,700	38,700	0	COMPLETE
TO PRODUCE STEAM AND CLEAN BARGES.	17,784	19,413	0	COMPLETE
ER - BURNS FUMES ARGES.	68,576	68,816	0	COMPLETE
TO HELP TO EXPEDITE CAPITAL PROJECTS	8,860	28,039	0	COMPLETE
FOR THE PURPOSE OF ON PERMIT* THRU TEXAS ATION COMM. (TNRCC).	11,568	10,477	0	COMPLETE
IFY/REPAIR MARINEWAY PUSH BOSTS.	15,000	22,592	0	COMPLETE
IFY/REPAIR MARINEWAY BOTTOM BOATS.	12,000	0	12,000	DECEMBER
RADE MARINEWAY RAIL.	8,000	0	8,000	FEBRUARY
L-IN CONCRETE SLAB	8,500	0	8,500	MARCH
TALL/HOOKUP OXIDIZER.	60,000	0	60,000	LATE 1996
TALL/HOOKUP SCRUBBER.	50,000	0	50,000	LATE 1996
RADE MISC. CLEANING	15,000	0	15,000	LATE 1996
LACE PRODUCT STORAGE	6,000	0	6,000	LATE 1996
T TO FINALIZE OBTAINING	5,000	0	5,000	LATE 1996
EXPENDITURES	345,579	209,220	162,500	

HMSC-FY SEP, 1996 BUDGET
PREPARED BY LARRY BALLINGER-FREERPORT, TEXAS

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	TOTAL
REVENUE:													
BARGE CLEANING	70,000	63,000	63,000	60,000	60,000	65,000	67,000	67,000	65,000	65,000	65,000	30,000	800,000
BARGE MECHANICAL	109,870	90,000	62,000	45,000	45,000	35,000	35,000	35,000	35,000	35,000	35,000	35,000	596,870
DOCK SERVICE	12,000												12,000
BOAT REPAIR	5,000	5,000	1,000	1,000	10,000	35,000	35,000	35,000	35,000	35,000	35,000	10,000	246,000
TOTAL REVENUE	196,870	158,000	126,000	106,000	115,000	135,000	137,000	137,000	135,000	135,000	135,000	135,000	1,654,870
COSTS AND EXPENSES:													
PERSONNEL COST	76,779	61,620	49,920	38,888	41,400	52,650	53,430	53,430	52,650	52,650	52,650	52,650	638,709
OPERATING COST	59,061	47,400	38,400	34,560	36,800	40,500	41,100	41,100	40,500	40,500	40,500	40,500	500,921
GENERAL & ADMIN EXP	29,500	29,500	29,500	29,500	29,500	29,500	29,500	29,500	29,500	29,500	29,500	29,500	354,000
INTEREST EXPENSE	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	8,000	96,000
TOTAL COST & EXPENSE*	173,340	146,520	125,820	110,948	115,700	130,650	132,030	132,030	130,650	130,650	130,650	130,650	1,589,630
NET INCOME*	23,530	11,480	2,180	(2,948)	(700)	4,350	4,970	4,970	4,350	4,350	4,350	4,350	65,240
YTD NET INCOME*	23,530	35,010	37,190	34,250	33,550	37,900	42,870	47,840	52,190	56,540	60,890	65,240	
NET INCOME*	23,530	11,480	2,180	(2,948)	(700)	4,350	4,970	4,970	4,350	4,350	4,350	4,350	65,240
CAPITAL EXPENDITURES		3,500	1,000			2,800	2,500	20,000	35,000	85,000			121,800
CASH FLOW	23,530	7,980	(820)	(2,948)	(700)	1,550	2,470	(15,030)	4,350	(30,650)	(50,650)	4,350	(56,260)
YTD CASH FLOW	23,530	31,510	30,690	27,750	27,050	28,900	31,370	16,340	20,690	(9,960)	(60,610)	(56,260)	

*EXCLUDING DEPRECIATION

CAPEX

NOVEMBER, 1995

2 - 3" DIESEL PUMPS @	\$ 3,500
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DECEMBER, 1995

2 - 2" AIR PUMP @	\$ 3,000
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MARCH, 1996

WALKER PERMIT @	\$ 2,500
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APRIL, 1996

WALKER PERMIT @	\$ 2,500
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MAY, 1996

SCRUBBER @	\$20,000
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JULY, 1996

HOOKUP OXIDIZER AND SCRUBBER @	\$35,000
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AUGUST, 1996

HOOKUP OXIDIZER @	\$28,000
CONCRETE INSIDE DIKE	\$10,000
REPLACE 4 CHEMICAL TANKS	\$ 3,000
BUY 3 CHEMICAL TANKS	\$ 2,000
MOVE TWO 73,000 GASH WATER TANKS	\$ 2,000
REPAIR RAILWAY	\$10,000

October, 1995

Dixie Carrier	\$50,000
BASF	18,000
Other	2,000

November, 1995

Dixie	43,000
BASF	15,000
Other	3,000

December, 1995

Dixie	43,000
BASF	15,000
Other	2,000

January, 1996

Dixie	43,000
BASF	15,000
Other	2,000

February, 1996

Dixie	43,000
BASF	15,000
Other	2,000

March, 1996

Dixie	46,000
BASF	15,000
Other	4,000

April, 1996

Dixie	48,000
BASF	16,000
Other	3,000

May, 1996

Dixie	48,000
BASF	16,000
Other	3,000

June, 1996

Dixie	46,000
BASF	15,000
Other	8,000

July, 1996

Dixie	46,000
BASP	15,000
Other	4,000

August, 1996

Dixie	46,000
BASP	15,000
Other	4,000

September, 1996

Dixie	55,000
BASP	20,000
Hollywood	6,000
National Marine	6,000
Other	4,000

OCT-19-1995 10:22 FROM Hercules Marine

TO

HOUSTON P.05

	# Barges	%
BASP	6	100%
National Marine	10	20%
Hollywood	30	25%
Ingram Barge Line	20	10%
Oxy	8	
Dupont	8	
Union Carbide	8	
ACBL	4	
Stolte Nielsen	10	10%
Canal	10	10%
Blessey	5	
Other		
Dixie	60	50%

TOTAL P.05